

Mon Apr 5 09:54:04 2004

us-10-066-500-9.rapb

Page 1

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 2, 2004, 09:52:57 ; Search time 40 Seconds
(without alignments)
767.445 Million cell updates/sec

Title: US-10-066-500-9

Perfect score: 609
Sequence: 1 MIVFGMAVFLASRLSGGLL.....QNVGSLVLDLAVIRLVDK 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1070241 seqs, 262374223 residues

Total number of hits satisfying chosen parameters: 1070241

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database: Published Applications AA:

1: /cgn2_6/prodata/1/pubppa/US07_PUBCOMB.pep:*
2: /cgn2_6/prodata/1/pubppa/PCT_NEW_PUB.pep:*
3: /cgn2_6/prodata/1/pubppa/US06_NEW_PUB.pep:*
4: /cgn2_6/prodata/1/pubppa/US06_PUBCOMB.pep:*
5: /cgn2_6/prodata/1/pubppa/US07_NEW_PUB.pep:*
6: /cgn2_6/prodata/1/pubppa/PCTUS_PUBCOMB.pep:*
7: /cgn2_6/prodata/1/pubppa/US08_NEW_PUB.pep:*
8: /cgn2_6/prodata/1/pubppa/US08_PUBCOMB.pep:*
9: /cgn2_6/prodata/1/pubppa/US09_PUBCOMB.pep:*
10: /cgn2_6/prodata/1/pubppa/US09_PUBCOMB.pep:*
11: /cgn2_6/prodata/1/pubppa/US09_NEW_PUB.pep:*
12: /cgn2_6/prodata/1/pubppa/US10_PUBCOMB.pep:*
13: /cgn2_6/prodata/1/pubppa/US10_PUBCOMB.pep:*
14: /cgn2_6/prodata/1/pubppa/US10_PUBCOMB.pep:*
15: /cgn2_6/prodata/1/pubppa/US10_PUBCOMB.pep:*
16: /cgn2_6/prodata/1/pubppa/US10_NEW_PUB.pep:*
17: /cgn2_6/prodata/1/pubppa/US60_NEW_PUB.pep:*
18: /cgn2_6/prodata/1/pubppa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	609	100.0	117	10	US-09-946-374-6
2	609	100.0	117	12	US-10-081-056-6
3	609	100.0	117	13	US-10-066-500-9
4	609	100.0	117	14	US-10-002-796-9
5	609	100.0	117	14	US-10-066-273-9
6	609	100.0	117	14	US-10-066-494-9
7	609	100.0	117	14	US-10-066-269-9
8	609	100.0	117	14	US-10-006-856A-6
9	609	100.0	117	14	US-10-066-211-9
10	609	100.0	117	14	US-10-066-193-9
11	609	100.0	117	14	US-10-006-818A-6
12	609	100.0	117	14	US-10-015-393A-6
13	609	100.0	117	14	US-10-015-869A-6
14	609	100.0	117	14	US-10-012-121A-6
15	609	100.0	117	14	US-10-006-116A-6

ALIGNMENTS

16	609	100.0	117	14	US-10-006-117A-6	Sequence 6, Appl1
17	609	100.0	117	14	US-10-017-527A-6	Sequence 6, Appl1
18	609	100.0	117	14	US-10-013-913A-6	Sequence 6, Appl1
19	609	100.0	117	14	US-10-007-194A-6	Sequence 6, Appl1
20	609	100.0	117	14	US-10-013-430A-6	Sequence 6, Appl1
21	609	100.0	117	14	US-10-011-671A-6	Sequence 6, Appl1
22	609	100.0	117	14	US-10-012-755A-6	Sequence 6, Appl1
23	609	100.0	117	14	US-10-015-386A-6	Sequence 6, Appl1
24	609	100.0	117	14	US-10-223-085-6	Sequence 9, Appl1
25	609	100.0	117	14	US-10-226-793-9	Sequence 6, Appl1
26	609	100.0	117	14	US-10-223-084-6	Sequence 6, Appl1
27	609	100.0	117	14	US-10-223-088-6	Sequence 6, Appl1
28	609	100.0	117	14	US-10-223-090-6	Sequence 6, Appl1
29	609	100.0	117	14	US-10-223-087-6	Sequence 6, Appl1
30	609	100.0	117	14	US-10-011-692A-6	Sequence 6, Appl1
31	609	100.0	117	14	US-10-006-768A-6	Sequence 6, Appl1
32	609	100.0	117	14	US-10-017-610A-6	Sequence 6, Appl1
33	609	100.0	117	14	US-10-006-063A-6	Sequence 6, Appl1
34	609	100.0	117	14	US-10-020-063A-6	Sequence 6, Appl1
35	609	100.0	117	14	US-10-223-083-6	Sequence 6, Appl1
36	609	100.0	117	14	US-10-015-391A-6	Sequence 6, Appl1
37	609	100.0	117	14	US-10-223-089-6	Sequence 6, Appl1
38	609	100.0	117	14	US-10-017-407A-6	Sequence 6, Appl1
39	609	100.0	117	14	US-10-011-833A-6	Sequence 6, Appl1
40	609	100.0	117	14	US-10-006-041A-6	Sequence 6, Appl1
41	609	100.0	117	14	US-10-015-822A-6	Sequence 6, Appl1
42	609	100.0	117	14	US-10-015-387A-6	Sequence 6, Appl1
43	609	100.0	117	14	US-10-006-130A-6	Sequence 6, Appl1
44	609	100.0	117	14	US-10-006-172A-6	Sequence 6, Appl1
45	609	100.0	117	14	US-10-017-253A-6	Sequence 6, Appl1

RESULT 1
US-09-946-374-6
Sequence 6, Application US/09946374
Publication No. US20030073129A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Godowski, Audrey
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gueney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1
CURRENT FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750

PRIOR FILING DATE: 1998-10-14
PRIOR APPLICATION NUMBER: 60/104987
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105104
PRIOR FILING DATE: 1998-10-21
PRIOR APPLICATION NUMBER: 60/105169
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807

Query Match 100.0%; Score 609; DB 10; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIVGMAVFASRLSGGLLTLEHIAHFLGTGAATTGNSCICRDSGTDSDVDTQ 60
Db 1 MIVGMAVFASRLSGGLLTLEHIAHFLGTGAATTGNSCICRDSGTDSDVDTQ 60
Qy 61 QOENSAVFADTDSQPRDPVPRRRGRGPRRRKQNDGLVDTLAVITLVK 117
Db 61 QOENSAVFADTDSQPRDPVPRRRGRGPRRRKQNDGLVDTLAVITLVK 117

RESULT 2

US-10-081-056-6
Sequence 6, Application US/10081056
Publication No. US20040043927A1
GENERAL INFORMATION:

APPLICANT: Baker, Kevin P.
APPLICANT: Ferrara, Napoleone
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerlisen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Masters, Scott A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Williams, P. Mickey
APPLICANT: Ye, Weilan

TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
TITL OF INVENTION: TREATMENT OF DISORDERS INVOLVING ANGIOGENESIS

FILE REFERENCE: P3235P1C1

CURRENT FILING DATE: 2002-02-20

PRIOR APPLICATION NUMBER: PCT/US01/21735

PRIOR FILING DATE: 2001-07-09

PRIOR APPLICATION NUMBER: US 60/219,556

PRIOR FILING DATE: 2000-07-20

PRIOR APPLICATION NUMBER: US 60/220,624

PRIOR FILING DATE: 2000-07-25

PRIOR APPLICATION NUMBER: US 60/220,664

PRIOR FILING DATE: 2000-07-25

PRIOR APPLICATION NUMBER: PCT/US00/20710

PRIOR FILING DATE: 2000-07-28

PRIOR APPLICATION NUMBER: US 60/222,695

PRIOR FILING DATE: 2000-08-02

PRIOR APPLICATION NUMBER: US 09/643,657

PRIOR FILING DATE: 2000-08-17

PRIOR APPLICATION NUMBER: PCT/US00/23522

PRIOR FILING DATE: 2000-08-23
PRIOR APPLICATION NUMBER: PCT/US00/23328
PRIOR FILING DATE: 2000-08-24
PRIOR APPLICATION NUMBER: US 60/230,978
PRIOR FILING DATE: 2000-09-07
PRIOR APPLICATION NUMBER: US 60/000,000
PRIOR FILING DATE: 2000-09-15
PRIOR APPLICATION NUMBER: US 09/664,610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 09/665,350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: US 60/242,922
PRIOR FILING DATE: 2000-10-24
PRIOR APPLICATION NUMBER: US 09/709,238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: PCT/US00/30952
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: PCT/US00/30873
PRIOR FILING DATE: 2000-11-10
PRIOR APPLICATION NUMBER: PCT/US00/32678
PRIOR FILING DATE: 2000-12-01
PRIOR APPLICATION NUMBER: US 09/747,259
PRIOR FILING DATE: 2000-12-20
PRIOR APPLICATION NUMBER: PCT/US00/34956
PRIOR FILING DATE: 2000-12-20
PRIOR APPLICATION NUMBER: US 09/767,609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: US 09/796,498
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: PCT/US01/06520
PRIOR FILING DATE: 2001-02-28
PRIOR APPLICATION NUMBER: PCT/US01/06666
PRIOR FILING DATE: 2001-03-01
PRIOR APPLICATION NUMBER: US 09/802,706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: US 09/808,689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: US 09/816,744
PRIOR FILING DATE: 2001-03-22
PRIOR APPLICATION NUMBER: US 09/828,366
PRIOR FILING DATE: 2001-04-05
PRIOR APPLICATION NUMBER: US 09/854,208
PRIOR FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: US 09/854,280
PRIOR FILING DATE: 2001-05-10
PRIOR APPLICATION NUMBER: US 09/866,028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 09/866,034
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: PCT/US01/17092
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: US 09/870,574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: PCT/US01/17443
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: PCT/US01/17800
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: PCT/US01/19692
PRIOR FILING DATE: 2001-06-20
PRIOR APPLICATION NUMBER: PCT/US01/00000
PRIOR FILING DATE: 2001-06-28
NUMBER OF SEQ ID NOS: 383

SEQ ID NO 6
LENGTH: 117
TYPE: PRT

ORGANISM: Homo sapiens

US-10-081-056-6

Query Match 100.0%; Score 609; DB 12; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1 MIVGMAVFASRLSGGLLTLEHIAHFLGTGAATTGNSCICRDSGTDSDVDTQ 60

Db 1 MIVGWAVFLASRLGGCLLTTEHIAHFLGTGATMGNSCICRDBSDGTDSDVTOQ 60
Cy 61 QQAENSAVFPTDTSQPPDPYRPPRRGPPRRKKONVDGLVDTLAVIRTLVTK 117
Db 61 QQAENSAVFPTDTSQPPDPYRPPRRGPPRRKKONVDGLVDTLAVIRTLVTK 117

RESULT 3
US-10-066-500-9
Sequence 9, Application US/10066500
Publication No. US20020177165A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Geisler
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kjaavn
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zeng
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C7
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09

PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/938821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137

PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380138
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380139
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/403296
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/403297
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/423741
 PRIOR FILING DATE: 1999-11-10
 PRIOR APPLICATION NUMBER: 09/423844
 PRIOR FILING DATE: 1999-11-12
 PRIOR APPLICATION NUMBER: 09/522342
 PRIOR FILING DATE: 2000-03-09
 PRIOR APPLICATION NUMBER: 09/548815
 PRIOR FILING DATE: 2000-04-13
 PRIOR APPLICATION NUMBER: 09/664610
 PRIOR FILING DATE: 2000-09-18
 PRIOR APPLICATION NUMBER: 09/665350
 PRIOR FILING DATE: 2000-09-18
 PRIOR APPLICATION NUMBER: 09/709238
 PRIOR FILING DATE: 2000-11-08
 PRIOR APPLICATION NUMBER: 09/767609
 PRIOR FILING DATE: 2001-01-22
 PRIOR APPLICATION NUMBER: 09/802706
 PRIOR FILING DATE: 2001-03-09
 PRIOR APPLICATION NUMBER: 09/808689
 PRIOR FILING DATE: 2001-03-14
 PRIOR APPLICATION NUMBER: 09/866028
 PRIOR FILING DATE: 2001-05-25
 PRIOR APPLICATION NUMBER: 09/870574
 PRIOR FILING DATE: 2001-05-30
 PRIOR APPLICATION NUMBER: 09/872035
 PRIOR FILING DATE: 2001-06-01
 PRIOR APPLICATION NUMBER: 09/886342
 PRIOR FILING DATE: 2001-06-19
 PRIOR APPLICATION NUMBER: PCT/US98/14552
 PRIOR FILING DATE: 1998-07-14
 PRIOR APPLICATION NUMBER: PCT/US98/18824
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: PCT/US98/19093
 PRIOR FILING DATE: 1998-09-14
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: 1998-09-16
 PRIOR APPLICATION NUMBER: PCT/US98/19437
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: PCT/US98/24855
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: 1998-12-01
 PRIOR APPLICATION NUMBER: PCT/US98/25190
 PRIOR FILING DATE: 1998-11-25
 PRIOR APPLICATION NUMBER: PCT/US99/05028
 PRIOR FILING DATE: 1999-03-08
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: 1999-06-02
 PRIOR APPLICATION NUMBER: PCT/US99/20111
 PRIOR FILING DATE: 1999-09-01
 PRIOR APPLICATION NUMBER: PCT/US99/20594
 PRIOR FILING DATE: 1999-09-08
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 609; DB 13; Length 117;
 Best Local Similarity 100.0%; Pred. No. 1,7e-58;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Cy 1 MIVGMAVFLASRISGGLTLLEHIAHFLGTGAATMGNSCICRDSGTDSDVDTQQ 60
 Db 1 MIVGMAVFLASRISGGLTLLEHIAHFLGTGAATMGNSCICRDSGTDSDVDTQQ 60

Cy 61 QQAENSAPVPTADRSQPRDVPFRRRGHGEHBRKKQNDGLVLTAVIRTLVDK 117
 Db 61 QQAENSAPVPTADRSQPRDVPFRRRGHGEHBRKKQNDGLVLTAVIRTLVDK 117

RESULT 4
 US-10-002-796-9
 Sequence 9, Application US/10002796
 Publication No. US20030032057A1
 GENERAL INFORMATION:

APPLICANT: Avi J. Ashkenazi
 APPLICANT: Kevin P. Baker
 APPLICANT: David A. Botstein
 APPLICANT: Luc Desnoyers
 APPLICANT: Dan L. Eaton
 APPLICANT: Napoleone Ferrara
 APPLICANT: Sherman Fong
 APPLICANT: Wei-Qiang Gao
 APPLICANT: Hanspeter Gerber
 APPLICANT: Mary E. Gerltsen
 APPLICANT: Audrey Goddard
 APPLICANT: Paul J. Godowski
 APPLICANT: Austin L. Gurney
 APPLICANT: Ivar J. Kjavlin
 APPLICANT: Jennie P. Mather
 APPLICANT: Mary A. Napier
 APPLICANT: James Pan
 APPLICANT: Nicholas F. Paoni
 APPLICANT: Margaret Ann Roy
 APPLICANT: Timothy A. Stewart
 APPLICANT: Daniel Tumas
 APPLICANT: Colin K. Matanabe
 APPLICANT: P. Mickey Williams
 APPLICANT: William I. Wood
 APPLICANT: Zemin Zang
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3130R1C1
 CURRENT APPLICATION NUMBER: US/10/002,796
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063082
 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
 PRIOR APPLICATION NUMBER: 60/063733
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 60/066364
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25
 PRIOR APPLICATION NUMBER: 60/069694
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998

PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/096601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/096803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/096811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/096812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-15
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25

PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548615
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/US98/14552
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/28301

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

CY 1 MIVEGMAVFLASRSLSGGLLTLEHTAHFLGTGAATNGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVEGMAVFLASRSLSGGLLTLEHTAHFLGTGAATNGNSCICRDSGTDSDVDTQQ 60
CY 61 QOENSANPTDTSQRPDRPRRGSGPBRKKNVDGLVDTLAVIRTLVVK 117
DB 61 QOENSANPTDTSQRPDRPRRGSGPBRKKNVDGLVDTLAVIRTLVVK 117

Mon Apr 5 09:54:04 2004

us-10-066-500-9.rapb

Page 7

```
RESULT 5
US-10-066-273-9
Sequence 9, Application US/10066273
Publication No. US20030032062A1
GENERAL INFORMATION:
APPLICANT: Avi U. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Garney
APPLICANT: Ivar J. Kljavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tuma
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zhang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P130R1C2
CURRENT APPLICATION NUMBER: US/10/066,273
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063664
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/066994
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10

PRIOR APPLICATION NUMBER: 60/0937000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/32928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
```

Mon Apr 5 09:54:04 2004

us-10-066-500-9.rapb

PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/655350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/US98/14552
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGAVFLASLSGGLLTLEEHIAHFLGTGAATTMNSCTCRDSDGTDSDVDVTDQ 60
DB 1 MIVFGAVFLASLSGGLLTLEEHIAHFLGTGAATTMNSCTCRDSDGTDSDVDVTDQ 60
QY 61 QQAENSAVPTADTRSGPRDPVRPFRGGGPHFPRKKONVDGIVLDTLAVITLVYDK 117
DB 61 QQAENSAVPTADTRSGPRDPVRPFRGGGPHFPRKKONVDGIVLDTLAVITLVYDK 117

RESULT 6

US-10-066-494-9
Sequence 9, Application US/10066494
Publication No. US20030032063A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerltzen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kljavin
APPLICANT: Dennis P. Macher
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
TITLE OR INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P130R1C9
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: US/10/066,494
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/06364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601

Mon Apr 5 09:54:04 2004

us-10-066-500-9.rapb

Page 9

PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 08/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18

PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 08/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/14552
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/188824
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: 09/19093
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 09/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 09/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 09/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 09/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: 09/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: 09/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: 09/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: 09/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: 09/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: 09/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/21547

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVPGWAVFLASRSGIGILLTLEHIAHFLGTGGAATTGNSCTCRDSDGTBDSVDVQ 60
DB 1 MIVPGWAVFLASRSGIGILLTLEHIAHFLGTGGAATTGNSCTCRDSDGTBDSVDVQ 60
QY 61 QQAENSAYPTADTRSQPPDPVPPRRGGPHPRKKNVVDGLVDTLAVIRTLVX 117
DB 61 QQAENSAYPTADTRSQPPDPVPPRRGGPHPRKKNVVDGLVDTLAVIRTLVX 117

RESULT 7
US-10-066-269-9
Sequence 9, Application US/10066269
Publication No. US20030040014A1

GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Borstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Klavin
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P133R1C4
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10

PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/136995
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1998-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844

```

; PRIOR FILING DATE: 1999-11-12
; PRIOR APPLICATION NUMBER: 09/522342
; PRIOR FILING DATE: 2000-03-09
; PRIOR APPLICATION NUMBER: 09/548815
; PRIOR FILING DATE: 2000-04-13
; PRIOR APPLICATION NUMBER: 09/664610
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: 09/665350
; PRIOR FILING DATE: 2000-09-18
; PRIOR APPLICATION NUMBER: 09/709238
; PRIOR FILING DATE: 2000-11-08
; PRIOR APPLICATION NUMBER: 09/767609
; PRIOR FILING DATE: 2001-01-22
; PRIOR APPLICATION NUMBER: 09/802706
; PRIOR FILING DATE: 2001-03-09
; PRIOR APPLICATION NUMBER: 09/808689
; PRIOR FILING DATE: 2001-03-14
; PRIOR APPLICATION NUMBER: 09/866028
; PRIOR FILING DATE: 2001-05-25
; PRIOR APPLICATION NUMBER: 09/870574
; PRIOR FILING DATE: 2001-05-30
; PRIOR APPLICATION NUMBER: 09/872035
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: 09/886342
; PRIOR FILING DATE: 2001-06-19
; PRIOR APPLICATION NUMBER: PCT/US98/14552
; PRIOR FILING DATE: 1998-07-14
; PRIOR APPLICATION NUMBER: PCT/US98/18824
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: PCT/US98/19093
; PRIOR FILING DATE: 1998-09-14
; PRIOR APPLICATION NUMBER: PCT/US98/19330
; PRIOR FILING DATE: 1998-09-16
; PRIOR APPLICATION NUMBER: PCT/US98/19437
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: PCT/US98/24855
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: PCT/US98/25108
; PRIOR FILING DATE: 1998-12-01
; PRIOR APPLICATION NUMBER: PCT/US98/25190
; PRIOR FILING DATE: 1998-11-25
; PRIOR APPLICATION NUMBER: PCT/US99/05028
; PRIOR FILING DATE: 1999-03-08
; PRIOR APPLICATION NUMBER: PCT/US99/12252
; PRIOR FILING DATE: 1999-06-02
; PRIOR APPLICATION NUMBER: PCT/US99/20111
; PRIOR FILING DATE: 1999-09-01
; PRIOR APPLICATION NUMBER: PCT/US99/20594
; PRIOR FILING DATE: 1999-09-08
; PRIOR APPLICATION NUMBER: PCT/US99/21090
; PRIOR FILING DATE: 1999-09-15
; PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match      100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSISGQGLLTLEEHIAHFLGTGAATTWNSCICRDSGTDSDVDTQ 60
DB 1 MIVFGMAVFLASRSISGQGLLTLEEHIAHFLGTGAATTWNSCICRDSGTDSDVDTQ 60

QY 61 QOSENSAVPTADTDSQPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
DB 61 QOSENSAVPTADTDSQPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117

RESULT 8
US-10-006-856A-6
; Sequence 6, Application US/10006856A
; Publication No. US20030044841X1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
```

```

; APPLICANT: Deenoyers, Luc
; APPLICANT: Baton, Dan J.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Gao, Wei-Qiang
; APPLICANT: Goddard, Audrey
; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830P1C14
; CURRENT FILING DATE: 2002-05-10
; NUMBER OF SEQ ID NOS: 477
; Prior Application removed - See File Wrapper or Palm
; SEQ ID NO 6
; LENGTH: 117
; TYPE: PRT
; ORGANISM: Homo sapiens
; FEATURE:
; NAME/KEY: sig_peptide
; LOCATION: 1-16
; OTHER INFORMATION: Signal peptide
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 18-24, 32-38, 34-40, 35-41, 51-57
; OTHER INFORMATION: N-Myristoylation Site.
; NAME/KEY: misc_feature
; LOCATION: 22-25, 50-54, 113-117
; OTHER INFORMATION: Casein Kinase II Phosphorylation Site.
US-10-006-856A-6

Query Match      100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSISGQGLLTLEEHIAHFLGTGAATTWNSCICRDSGTDSDVDTQ 60
DB 1 MIVFGMAVFLASRSISGQGLLTLEEHIAHFLGTGAATTWNSCICRDSGTDSDVDTQ 60

QY 61 QOSENSAVPTADTDSQPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
DB 61 QOSENSAVPTADTDSQPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117

RESULT 9
US-10-066-211-9
; Sequence 9, Application US/10066211
; Publication No. US2003004484A1
; GENERAL INFORMATION:
; APPLICANT: Avi J. Ashkenazi
; APPLICANT: David A. Botstein
; APPLICANT: Luc Deenoyers
; APPLICANT: Dan L. Baton
; APPLICANT: Napoleone Ferrara
; APPLICANT: Sherman Fong
; APPLICANT: Wei-Qiang Gao
; APPLICANT: Hanspeter Gerber
; APPLICANT: Mary E. Gerritsen
; APPLICANT: Audrey Goddard
; APPLICANT: Paul J. Godowski
; APPLICANT: Austin L. Gurney
; APPLICANT: Ivan J. Kijavlin
; APPLICANT: Jenie P. Mather
; APPLICANT: Mary A. Napier
; APPLICANT: James Pan
; APPLICANT: Nicholas F. Paoni
```

APPLICANT: Margaret Ann Roy
 APPLICANT: Timothy A. Stewart
 APPLICANT: Daniel Tumas
 APPLICANT: Colin K. Watanabe
 APPLICANT: P Mickey Williams
 APPLICANT: William T. Wood
 APPLICANT: Zemin Zang
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3130R1C8
 CURRENT FILING DATE: 2002-02-01
 PRIOR APPLICATION NUMBER: 10/002,796
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063082
 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
 PRIOR APPLICATION NUMBER: 60/063733
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 60/06364
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25
 PRIOR APPLICATION NUMBER: 60/069694
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998
 PRIOR FILING DATE: 1998-08-10
 PRIOR APPLICATION NUMBER: 60/097000
 PRIOR FILING DATE: 1998-08-18
 PRIOR APPLICATION NUMBER: 60/099601
 PRIOR FILING DATE: 1998-09-09
 PRIOR APPLICATION NUMBER: 60/099803
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099811
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099812
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/100858
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/101922
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/106032
 PRIOR FILING DATE: 1998-10-28
 PRIOR APPLICATION NUMBER: 60/109304
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: 60/125778
 PRIOR FILING DATE: 1999-03-23
 PRIOR APPLICATION NUMBER: 60/139695
 PRIOR FILING DATE: 1999-06-15
 PRIOR APPLICATION NUMBER: 60/145070
 PRIOR FILING DATE: 1999-07-20
 PRIOR APPLICATION NUMBER: 60/145698

PRIOR FILING DATE: 1999-07-25
 PRIOR APPLICATION NUMBER: 60/143396
 PRIOR FILING DATE: 1999-08-17
 PRIOR APPLICATION NUMBER: 60/169495
 PRIOR FILING DATE: 1999-12-07
 PRIOR APPLICATION NUMBER: 08/918874
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 08/933821
 PRIOR FILING DATE: 1997-09-19
 PRIOR APPLICATION NUMBER: 08/960507
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 09/114844
 PRIOR FILING DATE: 1998-07-14
 PRIOR APPLICATION NUMBER: 09/136801
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136804
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136828
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/158342
 PRIOR FILING DATE: 1998-09-21
 PRIOR APPLICATION NUMBER: 09/180997
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/202088
 PRIOR FILING DATE: 1998-12-08
 PRIOR APPLICATION NUMBER: 09/254311
 PRIOR FILING DATE: 1999-03-03
 PRIOR APPLICATION NUMBER: 09/254460
 PRIOR FILING DATE: 1999-03-09
 PRIOR APPLICATION NUMBER: 09/254465
 PRIOR FILING DATE: 1999-03-05
 PRIOR APPLICATION NUMBER: 09/284663
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 09/332928
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/332929
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/333075
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/333077
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/380137
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380138
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380139
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/403296
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/403297
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/423741
 PRIOR FILING DATE: 1999-11-10
 PRIOR APPLICATION NUMBER: 09/423844
 PRIOR FILING DATE: 1999-11-12
 PRIOR APPLICATION NUMBER: 09/522342
 PRIOR FILING DATE: 2000-03-09
 PRIOR APPLICATION NUMBER: 09/548815
 PRIOR FILING DATE: 2000-04-13
 PRIOR APPLICATION NUMBER: 09/664610
 PRIOR FILING DATE: 2000-09-18
 PRIOR APPLICATION NUMBER: 09/665350
 PRIOR FILING DATE: 2000-09-18
 PRIOR APPLICATION NUMBER: 09/709238
 PRIOR FILING DATE: 2000-11-08
 PRIOR APPLICATION NUMBER: 09/767609
 PRIOR FILING DATE: 2001-01-22
 PRIOR APPLICATION NUMBER: 09/802706
 PRIOR FILING DATE: 2001-03-09
 PRIOR APPLICATION NUMBER: 09/808689
 PRIOR FILING DATE: 2001-03-14
 PRIOR APPLICATION NUMBER: 09/866028
 PRIOR FILING DATE: 2001-05-25

PRIOR APPLICATION NUMBER: 09/870574
 PRIOR FILING DATE: 2001-05-30
 PRIOR APPLICATION NUMBER: 09/872035
 PRIOR FILING DATE: 2001-06-01
 PRIOR APPLICATION NUMBER: 09/86342
 PRIOR FILING DATE: 2001-06-19
 PRIOR APPLICATION NUMBER: PCT/US98/14552
 PRIOR FILING DATE: 1998-07-14
 PRIOR APPLICATION NUMBER: PCT/US98/18824
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: PCT/US98/19093
 PRIOR FILING DATE: 1998-09-14
 PRIOR APPLICATION NUMBER: PCT/US98/19330
 PRIOR FILING DATE: 1998-09-16
 PRIOR APPLICATION NUMBER: PCT/US98/19437
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: PCT/US98/24855
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: PCT/US98/25108
 PRIOR FILING DATE: 1998-12-01
 PRIOR APPLICATION NUMBER: PCT/US98/25190
 PRIOR FILING DATE: 1998-11-25
 PRIOR APPLICATION NUMBER: PCT/US99/05028
 PRIOR FILING DATE: 1999-03-08
 PRIOR APPLICATION NUMBER: PCT/US99/12252
 PRIOR FILING DATE: 1999-06-02
 PRIOR APPLICATION NUMBER: PCT/US99/20111
 PRIOR FILING DATE: 1999-09-01
 PRIOR APPLICATION NUMBER: PCT/US99/20594
 PRIOR FILING DATE: 1999-09-08
 PRIOR APPLICATION NUMBER: PCT/US99/21090
 PRIOR FILING DATE: 1999-09-15
 PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 609; DB 14; Length 117;
 Best Local Similarity 100.0%; Pred. No. 1,7e-58;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGNAVFLASSLGGGLLTLEEHIAHFLGTGGAATTMGSCICRDSGCTDSDVDTQO 60
 DB 1 MIVFGNAVFLASSLGGGLLTLEEHIAHFLGTGGAATTMGSCICRDSGCTDSDVDTQO 60
 QY 61 QOENSAVPTADTRSOBRDVRPPRRGSGHPEPRKKONVGLVLTAVIRFTLVK 117
 DB 61 QOENSAVPTADTRSOBRDVRPPRRGSGHPEPRKKONVGLVLTAVIRFTLVK 117

RESULT 10
 US-10-066-193-9
 Sequence 9, Application US/10066193
 Publication No. US20030044902A1
 GENERAL INFORMATION:
 APPLICANT: Avi J. Ashkenazi
 APPLICANT: Kevin P. Baker
 APPLICANT: David A. Botstein
 APPLICANT: Luc Desnoyers
 APPLICANT: Dan L. Eaton
 APPLICANT: Napoleon Ferrara
 APPLICANT: Sherman Fong
 APPLICANT: Wei-Qiang Gao
 APPLICANT: Hanspeter Gerber
 APPLICANT: Mary E. Gertschen
 APPLICANT: Audrey Goddard
 APPLICANT: Paul J. Godowski
 APPLICANT: Austin L. Gunney
 APPLICANT: Ivar J. Kjelvin
 APPLICANT: Jennie P. Mather
 APPLICANT: Mary A. Napier
 APPLICANT: James Pan
 APPLICANT: Nicholas F. Paoni
 APPLICANT: Margaret Ann Roy
 APPLICANT: Timothy A. Stewart
 APPLICANT: Daniel Tumas

APPLICANT: Colin K. Watanabe
 APPLICANT: P. Mickey Williams
 APPLICANT: William I. Wood
 APPLICANT: Zemin Zang
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P130R1C3
 CURRENT APPLICATION NUMBER: US/10/066,193
 CURRENT FILING DATE: 2002-02-01
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063082
 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
 PRIOR APPLICATION NUMBER: 60/063733
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 60/063664
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25
 PRIOR APPLICATION NUMBER: 60/069694
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998
 PRIOR FILING DATE: 1998-08-10
 PRIOR APPLICATION NUMBER: 60/097000
 PRIOR FILING DATE: 1998-08-18
 PRIOR APPLICATION NUMBER: 60/099601
 PRIOR FILING DATE: 1998-09-09
 PRIOR APPLICATION NUMBER: 60/099803
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099811
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099812
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/100858
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/101922
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/106032
 PRIOR FILING DATE: 1998-10-28
 PRIOR APPLICATION NUMBER: 60/109304
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: 60/125778
 PRIOR FILING DATE: 1999-03-23
 PRIOR APPLICATION NUMBER: 60/139695
 PRIOR FILING DATE: 1999-06-15
 PRIOR APPLICATION NUMBER: 60/145070
 PRIOR FILING DATE: 1999-07-20
 PRIOR APPLICATION NUMBER: 60/145698
 PRIOR FILING DATE: 1999-07-26
 PRIOR APPLICATION NUMBER: 60/149396
 PRIOR FILING DATE: 1999-08-17

PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1998-12-07
PRIOR APPLICATION NUMBER: 06/918874
PRIOR FILING DATE: 1997-08-28
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709228
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/808689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035

PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: PCT/US98/14552
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: PCT/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: PCT/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: PCT/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: PCT/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: PCT/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: PCT/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: PCT/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: PCT/US99/05028
PRIOR FILING DATE: 1998-03-08
PRIOR APPLICATION NUMBER: PCT/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: PCT/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: PCT/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: PCT/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: PCT/US99/21547

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MYFGWAVFLASRLGQGLLTLEHIAFLGTGATMGNSCTCRDSDGTPDSVDTQ 60
DB 1 MYFGWAVFLASRLGQGLLTLEHIAFLGTGATMGNSCTCRDSDGTPDSVDTQ 60

QY 61 QQAENSAVPFADTRSDPDRPVRPRRGPHBPRRKKQVNDGLVDTLAVIRTLVDK 117
DB 61 QQAENSAVPFADTRSDPDRPVRPRRGPHBPRRKKQVNDGLVDTLAVIRTLVDK 117

RESULT 11
US-10-006-818A-6
Sequence 6, Application US/10006818A
Publication No. US20030054406A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Deencyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth L.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C
CURRENT APPLICATION NUMBER: US/10/006,818A
Prior Application removed - See file wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 6
LENGTH: 117
TYPE: PRT

ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-16
OTHER INFORMATION: Signal Peptide
FEATURE:
NAME/KEY: misc_feature
LOCATION: 18-24, 32-38, 34-40, 35-41, 51-57
OTHER INFORMATION: N-Mylristoylation Site.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 22-26, 50-54, 113-117
OTHER INFORMATION: Casein Kinase II Phosphorylation Site.
US-10-006-818A-6

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
QY 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117
DB 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117

RESULT 12

US-10-015-393A-6
Sequence 6, Application US/10015393A
Publication No. US20030069179A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gueney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C46
CURRENT APPLICATION NUMBER: US/10/015,393A
CURRENT FILING DATE: 2002-06-10
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 6
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-16
OTHER INFORMATION: Signal Peptide
FEATURE:
NAME/KEY: misc_feature
LOCATION: 18-24, 32-38, 34-40, 35-41, 51-57
OTHER INFORMATION: N-Mylristoylation Site.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 22-26, 50-54, 113-117
OTHER INFORMATION: Casein Kinase II Phosphorylation Site.
US-10-015-393A-6

Query Match 100.0%; Score 609; DB 14; Length 117;

Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
QY 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117
DB 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117

RESULT 13

US-10-015-869A-6
Sequence 6, Application US/10015869A
Publication No. US20030073130A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Eaton, Dan I.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gueney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830P1C45
CURRENT APPLICATION NUMBER: US/10/015,869A
CURRENT FILING DATE: 2002-06-25
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 6
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-16
OTHER INFORMATION: Signal Peptide
FEATURE:
NAME/KEY: misc_feature
LOCATION: 18-24, 32-38, 34-40, 35-41, 51-57
OTHER INFORMATION: N-Mylristoylation Site.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 22-26, 50-54, 113-117
OTHER INFORMATION: Casein Kinase II Phosphorylation Site.
US-10-015-869A-6

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRLGGGLLTLEEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
QY 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117
DB 61 QOENSAYPTADTRSQPRDPVPRPRGRGPHPRRKQNVGVLDTLAVIRTLVXK 117

RESULT 14

US-10-012-121A-6
Sequence 6, Application US/10012121A
Publication No. US20030073810A1

```
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830PIC20
CURRENT APPLICATION NUMBER: US/10/012,121A
CURRENT FILING DATE: 2001-12-07
Prior Application removed - See File Wrapper or Palm
NUMBER OF SEQ ID NOS: 477
SEQ ID NO 6
LENGTH: 117
TYPE: PRT
ORGANISM: Homo sapiens
FEATURE:
NAME/KEY: sig_peptide
LOCATION: 1-16
OTHER INFORMATION: Signal Peptide
FEATURE:
NAME/KEY: misc_feature
LOCATION: 18-24, 32-38, 34-40, 35-41, 51-57
OTHER INFORMATION: N-Wyrieto/lactation Site.
FEATURE:
NAME/KEY: misc_feature
LOCATION: 22-26, 50-54, 113-117
OTHER INFORMATION: Casein Kinase II Phosphorylation Site.
US-10-012-121A-6

Query Match          100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1,7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGNAVFLASRLSGGLLTLEEHIAHFLGTGGAATTMGNSCICRDSGTDSDVDYDQ 60
DB 1 MIVFGNAVFLASRLSGGLLTLEEHIAHFLGTGGAATTMGNSCICRDSGTDSDVDYDQ 60
QY 61 QQENSADVPTADTRSQPRDVRPPRRGRGPHERRAKKQNVGGLVLTAVIRTLVDK 117
DB 61 QQENSADVPTADTRSQPRDVRPPRRGRGPHERRAKKQNVGGLVLTAVIRTLVDK 117

RESULT 15
US-10-006-116A-6
Sequence 6, Application US/10006116A
Publication No. US20030082626A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnovers, Luc
APPLICANT: Eaton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
```

```
FILE REFERENCE: P2830PIC15
CURRENT APPLICATION NUMBER: US/10/006,116A
CURRENT FILING DATE: 2001-12-16
Prior Application Number: 60/098716
Prior Filing Date: 1998-09-01
Prior Application Number: 60/098723
Prior Filing Date: 1998-09-01
Prior Application Number: 60/098749
Prior Filing Date: 1998-09-01
Prior Application Number: 60/098750
Prior Filing Date: 1998-09-01
Prior Application Number: 60/098803
Prior Filing Date: 1998-09-02
Prior Application Number: 60/098821
Prior Filing Date: 1998-09-02
Prior Application Number: 60/098843
Prior Filing Date: 1998-09-02
Prior Application Number: 60/099536
Prior Filing Date: 1998-09-09
Prior Application Number: 60/099596
Prior Filing Date: 1998-09-09
Prior Application Number: 60/099598
Prior Filing Date: 1998-09-09
Prior Application Number: 60/099602
Prior Filing Date: 1998-09-09
Prior Application Number: 60/099642
Prior Filing Date: 1998-09-09
Prior Application Number: 60/099741
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099754
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099763
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099792
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099808
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099812
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099815
Prior Filing Date: 1998-09-10
Prior Application Number: 60/099816
Prior Filing Date: 1998-09-10
Prior Application Number: 60/100385
Prior Filing Date: 1998-09-15
Prior Application Number: 60/100388
Prior Filing Date: 1998-09-15
Prior Application Number: 60/100390
Prior Filing Date: 1998-09-15
Prior Application Number: 60/100584
Prior Filing Date: 1998-09-16
Prior Application Number: 60/100627
Prior Filing Date: 1998-09-16
Prior Application Number: 60/100661
Prior Filing Date: 1998-09-16
Prior Application Number: 60/100662
Prior Filing Date: 1998-09-16
Prior Application Number: 60/100664
Prior Filing Date: 1998-09-16
Prior Application Number: 60/100683
Prior Filing Date: 1998-09-17
Prior Application Number: 60/100684
Prior Filing Date: 1998-09-17
Prior Application Number: 60/100710
Prior Filing Date: 1998-09-17
Prior Application Number: 60/100711
Prior Filing Date: 1998-09-17
Prior Application Number: 60/100848
Prior Filing Date: 1998-09-18
Prior Application Number: 60/100849
Prior Filing Date: 1998-09-18
Prior Application Number: 60/100919
```

PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/100930
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101014
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101068
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101071
PRIOR FILING DATE: 1998-09-18
PRIOR APPLICATION NUMBER: 60/101279
PRIOR FILING DATE: 1998-09-22
PRIOR APPLICATION NUMBER: 60/101471
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101472
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101474
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101475
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101476
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101477
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101479
PRIOR FILING DATE: 1998-09-23
PRIOR APPLICATION NUMBER: 60/101738
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101741
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101743
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101915
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/101916
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/102207
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102240
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102307
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102330
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102331
PRIOR FILING DATE: 1998-09-29
PRIOR APPLICATION NUMBER: 60/102484
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102487
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102570
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102571
PRIOR FILING DATE: 1998-09-30
PRIOR APPLICATION NUMBER: 60/102684
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102687
PRIOR FILING DATE: 1998-10-01
PRIOR APPLICATION NUMBER: 60/102965
PRIOR FILING DATE: 1998-10-02
PRIOR APPLICATION NUMBER: 60/103258
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103314
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103315
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103328
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103395
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103396
PRIOR FILING DATE: 1998-10-07
PRIOR APPLICATION NUMBER: 60/103401
PRIOR FILING DATE: 1998-10-07

PRIOR APPLICATION NUMBER: 60/103449
PRIOR FILING DATE: 1998-10-06
PRIOR APPLICATION NUMBER: 60/103633
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103678
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103679
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/103711
PRIOR FILING DATE: 1998-10-08
PRIOR APPLICATION NUMBER: 60/104257
PRIOR FILING DATE: 1998-10-14
PRIOR APPLICATION NUMBER: 60/104987
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105000
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105002
PRIOR FILING DATE: 1998-10-20
PRIOR APPLICATION NUMBER: 60/105104
PRIOR FILING DATE: 1998-10-21
PRIOR APPLICATION NUMBER: 60/105169
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105266
PRIOR FILING DATE: 1998-10-22
PRIOR APPLICATION NUMBER: 60/105693
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105694
PRIOR FILING DATE: 1998-10-26
PRIOR APPLICATION NUMBER: 60/105807
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/105881
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/105882
PRIOR FILING DATE: 1998-10-27
PRIOR APPLICATION NUMBER: 60/106023
PRIOR FILING DATE: 1998-10-28

Query Match 100.0%; Score 609; DB 14; Length 117;
Best Local Similarity 100.0%; Pred. No. 1.7e-58;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MTFGNAVFLASRSIGCGLLTLEHIAFTGTGAATTMGSCCRDSDGTDSVDVTDQ 60
DB 1 MTFGNAVFLASRSIGCGLLTLEHIAFTGTGAATTMGSCCRDSDGTDSVDVTDQ 60
QY 61 QQAENSAVPTADTRSGPRDPVAPRRGRGPHPRRKKQNVDELVDTLAVIRTVDXK 117
DB 61 QQAENSAVPTADTRSGPRDPVAPRRGRGPHPRRKKQNVDELVDTLAVIRTVDXK 117

Search completed: April 2, 2004, 09:56:13
Job time: 41 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using sw model

Run on: April 2, 2004, 09:37:06 ; Search time 39 Seconds
(without alignments)
946.555 Million cell updates/sec

Title: US-10-066-500-9
Perfect score: 609
Sequence: 1 MIVFGNAVLASRLSGGLL.....QNVDSGLVDTLAVITLVK 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1017041 seqs, 315518202 residues
Total number of hits satisfying chosen parameters: 1017041

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : SPTREMBL 25:*
1: sp_archaea:*
2: sp_bacteria:*
3: sp_fungi:*
4: sp_human:*
5: sp_invertebrate:*
6: sp_mammal:*
7: sp_mhc:*
8: sp_organelle:*
9: sp_phage:*
10: sp_plant:*
11: sp_protist:*
12: sp_virus:*
13: sp_vertebrate:*
14: sp_unclassified:*
15: sp_virus:*
16: sp_bacteriophage:*
17: sp_archaeap:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	604	99.2	576	4 Q96DX4	Q96DX4 homo sapien
2	586	96.2	576	6 Q95LP3	Q95LP3 macaca fasc
3	561	92.1	117	11 Q8BLS8	Q8BLS8 mus musculu
4	556	91.3	576	11 Q8C039	Q8C039 mus musculu
5	556	91.3	576	11 Q8BVR6	Q8BVR6 mus musculu
6	86	14.0	601	16 Q82F17	Q82F17 streptomyce
7	85.5	14.0	290	5 Q20394	Q20394 caenorhabdi
8	79.5	13.1	356	10 Q9ATP4	Q9ATP4 oryza sativ
9	79.5	13.1	388	10 Q941M8	Q941M8 oryza sativ
10	79.5	13.1	388	10 Q8LNE8	Q8LNE8 oryza sativ
11	79.5	13.1	388	10 Q7YXK7	Q7YXK7 oryza sativ
12	79.5	13.1	388	10 Q7YXK3	Q7YXK3 oryza sativ
13	79	13.0	970	10 Q9YFP2	Q9YFP2 oryza sativ
14	79	13.0	970	10 Q7XFP3	Q7XFP3 oryza sativ
15	78.5	12.9	188	2 Q7XK07	Q7XK07 alcatigenes
16	78	12.8	179	5 Q9XZ40	Q9XZ40 plasmodium

17	78	12.8	191	5 Q9UC01	Q9UC01 plasmodium
18	78	12.8	203	5 Q9UC00	Q9UC00 plasmodium
19	78	12.8	480	5 Q27033	Q27033 theileria p
20	77.5	12.7	550	12 Q40912	Q40912 kaposi's sa
21	77.5	12.7	550	12 P88903	P88903 kaposi's sa
22	76.5	12.6	634	4 Q8IXW0	Q8IXW0 homo sapien
23	76	12.5	1063	16 Q8XXH5	Q8XXH5 ralestonia s
24	75.5	12.4	948	5 Q9UJ04	Q9UJ04 caenorhabdi
25	75	12.3	147	5 Q15805	Q15805 plasmodium
26	75	12.3	147	5 Q15805	Q15805 plasmodium
27	75	12.3	183	5 Q9U0B5	Q9U0B5 plasmodium
28	75	12.3	183	5 Q9U0B4	Q9U0B4 plasmodium
29	75	12.3	260	5 Q8T83	Q8T83 plasmodium
30	75	12.3	267	13 Q9PUV0	Q9PUV0 balistes sp
31	75	12.3	278	5 Q25862	Q25862 plasmodium
32	75	12.3	291	5 Q25789	Q25789 plasmodium
33	74.5	12.2	121	12 Q8QK4	Q8QK4 hepatitis c
34	74.5	12.2	462	3 Q42721	Q42721 penicillium
35	74.5	12.2	2120	5 Q81AK1	Q81AK1 plasmodium
36	74	12.2	850	16 Q8FMD9	Q8FMD9 corynebacte
37	73.5	12.1	416	12 Q81265	Q81265 hepatitis c
38	73	12.0	206	5 Q9U0C3	Q9U0C3 plasmodium
39	73	12.0	220	5 Q9U0B3	Q9U0B3 plasmodium
40	73	12.0	222	5 Q9U0B1	Q9U0B1 plasmodium
41	73	12.0	353	11 Q62313	Q62313 mus musculu
42	73	12.0	579	2 Q8GFP2	Q8GFP2 streptomyce
43	73	12.0	1160	5 Q8T0V9	Q8T0V9 drosophila
44	73	12.0	1163	4 Q8N6U4	Q8N6U4 homo sapien
45	73	12.0	3571	10 Q9S127	Q9S127 arabidopsis

ALIGNMENTS

RESULT 1
Q96DX4 PRELIMINARY; PRT; 576 AA.
ID Q96DX4; AC Q96DX4; AD 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE Hypothetical protein KIAA1972.
GN KIAA1972.
OS Homo sapiens (Human)
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.
OX NCBI_Taxid=9606;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Lymph;
RA Strausberg R.;
RL Submitted (Aug-2001) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC TISSUE=Brain;
RX MEDLINE=21642142; PubMed=11853119;
RA Nagase T., Kikuno R., Ohara O.;
RT Prediction of the coding sequences of unidentified human genes. XXII.
RT The complete sequences of 50 new cDNA clones which code for large
RT proteins.";
RL DNA Res. 8:319-327(2001).
DR EMBL: BC013173; AAH13173.1; -;
DR EMBL: AB075852; BAB85558.1; -;
DR InterPro: IPR008938; ARM
DR InterPro: IPR003877; SPRY_receptor.
DR InterPro: IPR001841; Znf_Fing.
DR Pfam: PF00622; SPRY_1.
DR SMART: SM00184; RING_1.
DR SMART: SM00449; SPRY_1.
DR PROSITE: PS50089; ZF_RING_2; 1.
KM Hypothetical protein
SQ SEQUENCE 576 AA; 64180 MW; 8598E43E96691F9B CRC64;

```
Query Match          99.2%; Score 604; DB 4; Length 576;
Best Local Similarity 100.0%; Pred. No. 1.2e-57;
Matches 116; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60

QY 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116
DB 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116

RESULT 2
Q95LUP3 PRELIMINARY; PRT; 576 AA.
AC Q95LUP3;
DT 01-DEC-2001 (TREMBLrel. 19, Created)
DT 01-DEC-2001 (TREMBLrel. 19, Last sequence update)
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE Hypothetical protein.
OS Macaca fascicularis (Crah eating macaque) (Cynomolgus monkey).
OC Eukaryota; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Cercopitheciidae;
OC Cercopitheciinae; Macaca.
OX NCBI_TaxID=9541;
RN [1]
RP SEQUENCE FROM N.A.
RC TISSUE=Testis;
RA Hashimoto K., Osada N., Hida M., Kusuda J., Tanuma R., Hirai M.,
RA Terao K., Sugano S.;
RA "Isolation of novel full-length cDNA clones from macaque testis cDNA
RA libraries.";
RT Submitted (OCT-2001) to the EMBL/Genbank/DBJ databases.
DR EMBL; AB072745; BAB69714.1; -
DR InterPro; IPR008938; APW
DR InterPro; IPR003877; SPRY_receptor.
DR InterPro; IPR001841; ZnF_Ring.
DR Pfam; PF00622; SPRY; 1.
DR SMART; SM00184; RING; 1.
DR SMART; SM00449; SPRY; 1.
DR PROSITE; PS50089; ZF_RING_2; 1.
DR Hypothetical protein.
SQ SEQUENCE 576 AA; 64255 MW; 68D230AD1C4F5R8D CRC64;

Query Match          96.2%; Score 586; DB 6; Length 576;
Best Local Similarity 97.4%; Pred. No. 1.1e-55;
Matches 113; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60

QY 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116
DB 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116

RESULT 3
Q98LUS8 PRELIMINARY; PRT; 117 AA.
AC Q98LUS8;
DT 01-MAR-2003 (TREMBLrel. 23, Created)
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
DT 01-MAR-2003 (TREMBLrel. 23, Last annotation update)
DE Hypothetical Sp1a and the Ryanodine receptor.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Cortex;
SQ STRAIN=C57BL/6J; TISSUE=Cortex;
```

```
RX MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RA The RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573 (2002).
DR EMBL; AK043522; BAC31566.1; -
KW Hypothetical protein.
SQ SEQUENCE 117 AA; 12738 MW; D3FEC471ABD5D3C CRC64;

Query Match          92.1%; Score 561; DB 11; Length 117;
Best Local Similarity 91.5%; Pred. No. 9.5e-54;
Matches 107; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60

QY 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVDX 117
DB 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVDX 117

RESULT 4
Q8C039 PRELIMINARY; PRT; 576 AA.
AC Q8C039;
DT 01-MAR-2003 (TREMBLrel. 23, Created)
DT 01-MAR-2003 (TREMBLrel. 23, Last sequence update)
DT 01-OCT-2003 (TREMBLrel. 25, Last annotation update)
DE Hypothetical Sp1a and the Ryanodine receptor.
CN 4930470D19RIK.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=C57BL/6J; TISSUE=Olfactory brain;
RA MEDLINE=22354683; PubMed=12466851;
RA The FANTOM Consortium.
RA The RIKEN Genome Exploration Research Group Phase I & II Team;
RT "Analysis of the mouse transcriptome based on functional annotation of
RT 60,770 full-length cDNAs.";
RL Nature 420:563-573 (2002).
DR EMBL; AK032416; BAC27858.1; -
DR WGD; MG11914860; 4930470D19RIK.
DR InterPro; IPR008938; APW.
DR InterPro; IPR003877; SPRY_receptor.
DR InterPro; IPR001841; ZnF_Ring.
DR Pfam; PF00622; SPRY; 1.
DR SMART; SM00184; RING; 1.
DR SMART; SM00449; SPRY; 1.
DR PROSITE; PS50089; ZF_RING_2; 1.
DR Hypothetical protein.
KW SEQUENCE 576 AA; 64340 MW; D72D60E80311D02 CRC64;

Query Match          91.3%; Score 556; DB 11; Length 576;
Best Local Similarity 91.4%; Pred. No. 2.2e-52;
Matches 106; Conservative 3; Mismatches 7; Indels 0; Gaps 0;

QY 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60
DB 1 MIVFGMAVFLASRSLOGGILLTLEHIAHFLGTGAATTMGNSCICRDSGTDSDVDTQQ 60

QY 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116
DB 61 QCAENSAVPTADTRSQPRDPVPRPRGRGPHPRKKNQVNDGLVDTTAVIRTLVD 116

RESULT 5
Q8BVR6 PRELIMINARY; PRT; 576 AA.
ID Q8BVR6
```

AC 08BYR6; (TREMBlrel. 23, Created)
 DT 01-MAR-2003 (TREMBlrel. 23, Last sequence update)
 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
 DE Hypothetical SPL and the Ryanodine receptor (Hypothetical protein).
 GN 4930470D19R1K.
 OS Mus musculus (Mouse).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 NCBI_TaxID=10090;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; TISSUE=Testis;
 RX MEDLINE=22354683; PubMed=12466851;
 RA The FANTOM Consortium,
 RA The RIKEN Genome Exploration Research Group Phase I & II Team;
 RT "Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs";
 RL Nature 420:563-573(2002).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Embryo;
 RX MEDLINE=12477932; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G., Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D., Altschul S.F., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K., Hopkins R.F., Jordan H., Moore T., Wax S.I., Wang J., Heien L., Stachenko L., Marzina K., Farmer A.A., Rubin G.W., Hong L., Stachenko M., Soares M.B., Bonaldo M.F., Casavant T.L., Scheetz T.E., Brownstein M.J., Uscid T.B., Toshiyuki S., Carninci P., Prange C., Raha S.S., Loughran N.A., Peters G.J., Abramson R.D., Muljani S.J., Bosnak S.A., McGwan P.J., McKernan K.J., Malek J.A., Gunatirane P.H., Richards S., Morley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W., Villalón D.K., Wuzny D.M., Sodergren E.J., Lu X., Gibbs R.A., Rahy U., Helton E., Ketteman M., Madan A., Rodriguez S., Sanchez A., Whiting M., Madan A., Young A.C., Shevchenko J., Boultard G.G., Blakesley R.W., Touchman J.W., Green E.D., Dickson M.C., Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M., Butterfield Y.S., Krzywinski M.I., Skalske U., Smallus D.E., Scherch A., Schein J.E., Jones S.J., Marra M.A.;
 RA "Generation and initial analysis of more than 15,000 full-length human RT and mouse cDNA sequences";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [3]
 RP SEQUENCE FROM N.A.
 RC TISSUE=Embryo;
 RA Strausberg R.;
 RT Submitted (JUN-2003) to the EMBL/GenBank/DBJ databases.
 DR EMBL: AK076799; BAC36485.1;
 DR EMBL: BC054121; AA584121.1;
 DR MGD: MGI:191460; 4930470D19R1K.
 DR InterPro: IPR008938; AKM.
 DR InterPro: IPR003871; SPRY_receptor.
 DR InterPro: IPR001841; Znf_ring.
 DR Pfam: PF00622; SPRY.1.
 DR SMART: SM00184; RING.1.
 DR SMART: SM00449; SPRY.1.
 DR PROSITE: PS50089; ZF_RING_2; 1.
 KM Hypothetical protein.
 SQ SEQUENCE 576 AA; 64322 MW; 823C9532FCB13937 CRC64;
 QY Query Match 91.3%; Score 556; DB 1; Length 576;
 DB Best Local Similarity 91.4%; Pred. No. 2.2e-52;
 Matches 106; Conservative 3; Mismatches 7; Indels 0; Gaps 0;
 QY 1 MIVEGMAVFLASRSIGGILLTLEHTAHFLGTGGAATNGSGICRDSGTDSDVDTQ 60
 DB 1 MIVFMAVFLASRSIGGILLTLEHTAHFLGTGGAATNGSGICRDSGTDSDVDTQ 60
 QY 61 QQAENSAPVTDTRSGPRDPPVPRGRGPRRPRKKQNDGLVDTLAVIRTLVD 116
 DB 61 QQAENSAPVTDTRSGPRDPPVPRGRGPRRPRKKQNDGLVDTLAVIRTLVD 116

RESULT 6
 Q82F17 PRELIMINARY; PRT; 601 AA.
 AC Q82F17;
 DT 01-JUN-2003 (TREMBlrel. 24, Created)
 DT 01-JUN-2003 (TREMBlrel. 24, Last sequence update)
 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
 DE Putative thiamine biosynthesis protein.
 GN THA OR S4V4265.
 OS Streptomyces avermitilis.
 OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales; Streptomycinae; Streptomycetaceae; Streptomyces.
 NCBI_TaxID=33903;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;
 RX MEDLINE=21477403; PubMed=11572948;
 RA Omura S., Ikeda H., Ishikawa J., Hanamoto A., Takahashi C., Shinose M., Takahashi Y., Horikawa H., Nakazawa H., Osone T., Kikuchi H., Shida T., Sakaki Y., Hattori M.;
 RT "Genome sequence of an industrial microorganism Streptomyces avermitilis: deducing the ability of producing secondary metabolites";
 RL Proc. Natl. Acad. Sci. U.S.A. 98:12215-12220(2001).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=MA-4680 / ATCC 31267 / NCIMB 12804 / NRRL 8165;
 RX MEDLINE=22608306; PubMed=12692562;
 RA Ikeda H., Ishikawa J., Hanamoto A., Shinose M., Kikuchi H., Sakaki Y., Hattori M., Omura S.;
 RT "Complete genome sequence and comparative analysis of the industrial microorganism Streptomyces avermitilis";
 RL Nat. Biotechnol. 21:526-531(2003).
 DR EMBL: AP005038; BAC11977.1;
 DR GO: GO:0009228; P:thiamin biosynthesis; ISA.
 DR InterPro: IPR002817; Thic.
 DR Pfam: PF01964; Thic.1.
 DR Prodom: PD007048; Thic.1.
 DR TIGRFAMs: TIGR00190; thic.1.
 KM Complete proteome.
 SQ SEQUENCE 601 AA; 66485 MW; B149CD75A602FCF5 CRC64;
 QY Query Match 14.1%; Score 86; DB 16; Length 601;
 DB Best Local Similarity 32.3%; Pred. No. 0.86;
 Matches 31; Conservative 7; Mismatches 36; Indels 22; Gaps 4;
 QY 39 TMGNSCICRDPDSG--TDSVDTQOQQA-----ENSAVPTADTRSGPRDPPVR----- 83
 DB 55 TNGSVPVLYTSGGYDPSVDTVRGGLAPLRNMWILARGDTEFYAGRVREDDSGIKRT 114
 QY 84 -PRRGRC-----PHEPRRKKQNDGLVDTLAVIR 112
 DB 115 SPRGRLNDLAVPGRGPRRGRDQAVYQLAYAR 150
 QY RESULT 7
 Q20394 PRELIMINARY; PRT; 290 AA.
 AC Q20394;
 DT 01-NOV-1996 (TREMBlrel. 01, Created)
 DT 01-NOV-1996 (TREMBlrel. 01, Last sequence update)
 DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
 DE F44D12.6 protein.
 GN F44D12.6.
 OS Caenorhabditis elegans.
 OC Eukaryota; Metazoa; Nematozoa; Chromadorea; Rhabditida; Rhabditidae;
 OC Rhabditidae; Peloderinae; Caenorhabditis.
 NCBI_TaxID=6239;
 RN [1]
 RP SEQUENCE FROM N.A.
 RA Coles L.;

RL Submitted (DEC-1995) to the EMBL/GenBank/DBJ databases.
RN SEQUENCE FROM N.A.
RX MEDLINE=99069613; PubMed=9851916;
RA none;
RT "Genome sequence of the nematode C.elegans: A platform for
investigating biology.";
RL Science 282:2012-2018(1998).
DR EMBL; Z68298; CAA92602.1; -.
DR PIR; T22161; T22161.
DR WormPep; F44D12.6; CE03330.
SQ SEQUENCE 290 AA; 32831 MW; B60BE9EC89E7780 CRC64;

Query Match 14.0%; Score 85.5; DB 5; Length 290;
Best Local Similarity 30.0%; Pred. No. 0.42; 31; Indels 17; Gaps 5;
Matches 27; Conservative 15; Mismatches 31;

QY 24 EHHAFHFGTGAATTGNN-SCICRDSGTD-----DSVDTQOQAENSAVFTADTRSGP 77
DB 154 DAHV-HMRETGAFIIRNDACRSKDDGCDTIDSGNSKEDQERSKYNSEWPLSD----- 207
QY 78 RDPVPPRRGKGFHPRKKNVGVLDT 107
DB 208 KKPDRKPFQ-----ETPRRSKORTPGMPMT 232

RESULT 8
Q9ATR4 PRELIMINARY; PRT; 356 AA.
ID Q9ATR4
AC Q9ATR4;
DT 01-JUN-2001 (TREMBlrel. 17, Created)
DT 01-JUN-2001 (TREMBlrel. 17, Last sequence update)
DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
DE Teosinte branched protein (Fragment).
GN TBL.
OS Oryza sativa (Rice).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzaceae; Oryza.
OX NCBI_TaxID=4530;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=21165336; PubMed=11264415;
RA Lukens L., Doebley J.,
RT "Molecular evolution of the teosinte branched gene among maize and
related grasses.";
RL Mol. Biol. Evol. 18:627-638(2001).
DR EMBL; AF322143; AAK37505.1; -.
DR Gramene; Q9ATR4; -.
DR InterPro; IPR005333; TCP.
DR Pfam; PF03634; TCP; 1.
FT NON_TER 1
FT NON_TER 356
SQ SEQUENCE 356 AA; 37757 MW; 95D7174BC6AB8F84 CRC64;

Query Match 13.1%; Score 79.5; DB 10; Length 356;
Best Local Similarity 32.3%; Pred. No. 2.4;
Matches 20; Conservative 6; Mismatches 27; Indels 9; Gaps 1;

QY 43 SCICRDSGTDSDVTQOQAENSA-----VFTADTRSGPDPVPPRRGKGFHPR 93
DB 180 SSVCEDGSSSLSDVKQOQHSPADRGAGDHHKGAAGHSDGKKPAKPRRAANPKFP 239
QY 94 RR 95
DB 240 RR 241

RESULT 9
Q941M8 PRELIMINARY; PRT; 388 AA.
ID Q941M8
AC Q941M8;
DT 01-DEC-2001 (TREMBlrel. 19, Created)

DT 01-DEC-2001 (TREMBlrel. 19, Last sequence update)
DT 01-OCT-2002 (TREMBlrel. 22, Last annotation update)
DE Teosinte branched protein.
GN TBL.
OS Oryza sativa (Rice).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzaceae; Oryza.
OX NCBI_TaxID=4530;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. indica guangju'at 4;
RA Hu W., Zhao Y., Luo D.,
RT "The structural and functional analysis of a Tbl-like gene in rice.";
RL Submitted (JUN-2001) to the EMBL/GenBank/DBJ databases.
DR EMBL; AY043215; AAL05595.1; -.
DR Gramene; Q941M8; -.
DR InterPro; IPR005333; TCP.
DR Pfam; PF03634; TCP; 1.
SQ SEQUENCE 388 AA; 41493 MW; 700B90C018BC66A0 CRC64;

Query Match 13.1%; Score 79.5; DB 10; Length 388;
Best Local Similarity 32.3%; Pred. No. 2.7;
Matches 20; Conservative 6; Mismatches 27; Indels 9; Gaps 1;

QY 43 SCICRDSGTDSDVTQOQAENSA-----VFTADTRSGPDPVPPRRGKGFHPR 93
DB 179 SSVCEDGSSSLSDVKQOQHSPADRGAGDHHKGAAGHSDGKKPAKPRRAANPKFP 238
QY 94 RR 95
DB 239 RR 240

RESULT 10
Q8LN68 PRELIMINARY; PRT; 388 AA.
ID Q8LN68
AC Q8LN68;
DT 01-OCT-2002 (TREMBlrel. 22, Created)
DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
DT 01-JUN-2003 (TREMBlrel. 24, Last annotation update)
DE Teosinte branched protein.
GN OSUNBA0004G17.5 OR OSTBL.
OS Oryza sativa (Japonica cultivar-group).
OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
OC Spermatophyta; Magnoliophyta; Liliopsida; Poales; Poaceae;
OC Ehrhartoideae; Oryzaceae; Oryza.
OX NCBI_TaxID=39947;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Nipponbare;
RA Buell C.R., Yuan Q., Ouyang S., Liu J., Gansberger K., Jones K.M.,
RA Overton II L.L., Taitlin T., Kim M.M., Bera J.J., Jin S.S.,
RA Fadrosch D.W., Tallon L.U., Koo H., Zismann V., Haiso J., Blunt S.,
RA Vanaken S.S., Riedmiller S.B., Utecherback T.T., Feldlyum T.V.,
RA Yang Q.Q., Haas B.V., Sun B.B., Peterson J.J., Quackenbush J.,
RA White O., Salzberg S.L., Fraser C.M.,
RT "Oryza sativa chromosome 3 BAC OSUNBA0004G17 genomic sequence.";
RL Submitted (AUG-2002) to the EMBL/GenBank/DBJ databases.
RN [2]
RP SEQUENCE FROM N.A.
RC STRAIN=cv. Nipponbare;
RA Takeda T., Suwa Y., Ueguchi-Tanaka M., Ashikari M., Matsuo M.,
RA Ueguchi C.,
RT "The OSTB1 gene negatively regulates lateral branching in rice.";
RL Submitted (JUL-2002) to the EMBL/GenBank/DBJ databases.
DR EMBL; AC091775; AAM97162.1; -.
DR EMBL; AB088343; BAC54954.1; -.
DR Gramene; Q8LN68; -.
DR InterPro; IPR005333; TCP.
DR Pfam; PF03634; TCP; 1.
SQ SEQUENCE 388 AA; 41504 MW; 8CF363D2EAA02743 CRC64;

Query Match 13.1%; Score 79.5; DB 10; Length 388;
 Best Local Similarity 32.3%; Pred. No. 2.7; Indels 9; Gaps 1;
 Matches 20; Conservative 6; Mismatches 27

QY 43 SCICRDSGTDSVDTQOQAENSA-----VPTADTRSGPRDPVPPRRGRGPHPP 93
 179 SSVCEEDSSSLSDGKQOQHNPADRGAGADHKGAHGHSDGKPKAPRRRAANPKPP 238

QY 94 RR 95
 239 RR 240

Db

RESULT 11
 ID QY1X7 PRELIMINARY; PRT; 388 AA.
 AC QY1X7
 DT 01-OCT-2003 (TREMBlrel. 25, Created)
 DT 01-OCT-2003 (TREMBlrel. 25, Last sequence update)
 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
 DE Teosinte-branching 1.
 GN Tbl.
 OS Oryza sativa (indica cultivar-group).
 OC Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 OC Spermatophytes; Magnoliophyta; Liliopsida; Poales; Poaceae;
 OC Erihartoideae; Oryzaceae; Oryza.
 OC NCBI_TaxID=39946;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STAIN=cy-IR-35;
 RA Hu W., Zhang S., Zhao Z., Zhao Y., Sun C.R., Luo D.;
 RT "The structural and expression analysis of OST1 in rice."
 RL Submitted (Apr-2003) to the EMBL/Genbank/DBJ databases.
 DR EMBL: AY266002; AAP371176.1;
 SQ SEQUENCE 388 AA; 41504 MW; 8CF3632EAA02743 CRC64;

Query Match 13.1%; Score 79.5; DB 10; Length 388;
 Best Local Similarity 32.3%; Pred. No. 2.7; Indels 9; Gaps 1;
 Matches 20; Conservative 6; Mismatches 27

QY 43 SCICRDSGTDSVDTQOQAENSA-----VPTADTRSGPRDPVPPRRGRGPHPP 93
 179 SSVCEEDSSSLSDGKQOQHNPADRGAGADHKGAHGHSDGKPKAPRRRAANPKPP 238

QY 94 RR 95
 239 RR 240

Db

RESULT 12
 ID QYXR3 PRELIMINARY; PRT; 5146 AA.
 AC QYXR3
 DT 01-MAY-2000 (TREMBlrel. 13, Created)
 DT 01-OCT-2002 (TREMBlrel. 22, Last sequence update)
 DT 01-OCT-2003 (TREMBlrel. 25, Last annotation update)
 DE CG8184 protein.
 GN CG8184.
 OS Drosophila melanogaster (Fruit fly).
 OC Eukaryota; Metazoa; Arthropoda; Hexapoda; Insecta; Pterygota;
 OC Neoptera; Endopterygota; Diptera; Brachycera; Muscomorpha;
 OC Ephydroidea; Drosophilidae; Drosophila.
 OC NCBI_TaxID=7227;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC STRAIN=Berkelley;
 RA MEDLINE=20196006; PubMed=10731132;
 RA Adams M.D., Ceiniker S.E., Holt R.A., Evans C.A., Gocayne J.D.,
 RA Amaratilake P.G., Scherer S.E., Li P.W., Hoskins R.A., Galie R.F.,
 RA George R.A., Lewis S.E., Richards S., Ashburner M., Henderson S.N.,
 RA Sutton G.G., Wortman J.R., Yandell M.D., Zhang Q., Chen L.X.,
 RA Brandon R.C., Rogers Y.-H.C., Blazer R.G., Champe M., Pfeiffer B.D.,
 RA Wan K.H., Doyle C., Baxter E.G., Helt G., Nelson C.R., Miklos G.L.G.,

Abtil J.F., Agbayani A., An H.-J., Andrews-Pfankoch C., Baldwin D.,
 BA Ballew K.Y., Basu A., Baxendale J., Bayraktaroglu L., Beasley E.M.,
 BA Beeson K.Y., Benos P.V., Bereman B.P., Bhandari D., Bolshakov S.,
 BA Borokova D., Botchan M.R., Bouck J., Brokstein P., Brottier P.,
 BA Burris K.C., Busam D.A., Butler H., Cadieu E., Center A., Chandra I.,
 BA Cherry J.M., Cawley S., Dahlke C., Davenport L.B., Davies P.,
 BA de Pablos B., Delcher A., Deng Z., Mays A.D., Dew I., Dietz S.M.,
 BA Dodson K., Doup L.E., Downes M., Dugan-Rocha S., Dunkov B.C., Dunn P.,
 BA Durbin K.J., Evangelista C.C., Ferrara C., Ferreira S., Fleischmann W.,
 BA Foster C., Gabriellian A.E., Garg N.S., Gelbart W.M., Glasser K.,
 BA Glodok A., Gong F., Gorrell J.H., Gu Z., Guan P., Harris M.,
 BA Harris N.L., Harvey D., Heiman T.J., Hernandez J.R., Houck J.,
 BA Hostin D., Houston K.A., Howland T.U., Wei M.-H., Ibegwan C.,
 BA Jalali M., Kalush F., Karpen G.H., Ke Z., Kennison J.A., Ketchum K.A.,
 BA Kimmel B.E., Kodira C.D., Kraft C., Kravitz S., Kulp D., Lai Z.,
 BA Lasko P., Lei Y., Levitsky A.A., Li J., Li Z., Liang Y., Lin X.,
 BA Liu X., Mattei B., McIntosh T.C., McLeod M.P., McPherson D.,
 BA Merkulov G., Milhina N.V., Mobarry C., Morris J., Moshrefi A.,
 BA Mount S.M., Moy M., Murphy B., Murphy L., Muzny D.M., Nelson D.L.,
 BA Nelson D.R., Nelson K.A., Nixon K., Nusskern D.R., Pacle J.M.,
 BA Palazzolo M., Pittman G.S., Pan S., Pollard J., Puri V., Reese M.G.,
 BA Reinert K., Remington K., Saunders R.D.C., Scheeler F., Shen H.,
 BA Shue B.C., Siden-Kiamos I., Simpson M., Skupski M.P., Smith T.,
 BA Spier E., Spradling A.C., Stapleton M., Strong R., Sun E.,
 BA Svirskas R., Tector C., Turner R., Venter E., Wang A.H., Wang X.,
 BA Wang Z.-Y., Wasserman D.A., Weinstock G.M., Weissbach J.,
 BA Williams S.M., Woodage T., Worley K.C., Wu D., Yang S., Yao Q.A.,
 BA Ye J., Yeh R.-F., Zaveri J.S., Zhan M., Zhang G., Zhao Q., Zheng L.,
 BA Zheng X.H., Zhong F.N., Zhong W., Zhou X., Zhu S., Zhu X., Smith H.O.,
 RA Gibbs R.A., Myers E.W., Rubin G.M., Venter J.C.;
 RT "The genome sequence of Drosophila melanogaster."
 RL Science 287:2185-2195 (2000).

(2)
 RN SEQUENCE FROM N.A.
 RP Ceiniker S.E., Adams M.D., Krommiller B., Wan K.H., Holt R.A.,
 RA Evans C.A., Gocayne J.D., Amaratilake P.G., Brandon R.C., Rogers Y.,
 RA Banzon J., An H., Baldwin D., Banzon J., Beeson K.Y., Busam D.A.,
 RA Carlson J.W., Center A., Champe M., Davenport L.B., Dietz S.M.,
 RA Dodson K., Dorsett V., Doup L.E., Doyle C., Dresner D., Farfan D.,
 RA Ferreira S., Frise E., Galie R.F., Garg N.S., George R.A.,
 RA Gonzalez M., Houck J., Hoskins R.A., Hostin D., Howland T.J.,
 RA Ibegwan C., Jalali M., Kruse D., Li P., Mattei B., Moshrefi A.,
 RA McIntosh T.C., Moy M., Murphy B., Nelson C., Nelson K.A., Nunoo J.,
 RA Pacle J., Paragae V., Park S., Patel S., Pfeiffer B.,
 RA Pounenavong S., Pittman G.S., Puri V., Richards S., Scheeler F.,
 RA Stapleton M., Strong R., Svirskas R., Tector C., Tyler D.,
 RA Williams S.M., Zaveri J.S., Smith H.O., Venter J.C., Rubin G.M.;
 RT "Sequencing of Drosophila melanogaster genome."
 RL Submitted (MAR-2000) to the EMBL/Genbank/DBJ databases.

(3)
 RN SEQUENCE FROM N.A.
 RP Misra S., Crosby M.A., Mathews B.B., Bayraktaroglu L., Campbell K.,
 RA Hradecky P., Huang Y., Kaminker J.S., Prochink S.E., Smith C.D.,
 RA Tupy J.L., Bergman C., Bereman B., Carlson J.W., Ceiniker S.E.,
 RA Clump W., Brysman R., Emmert D., Frise B., de Grey A., Harris N.,
 RA Krommiller B., Marshall B., Milburn G., Richter J., Russo S.,
 RA Searle S.M.J., Smith B., Shu S., Smutnick F., Whitfield E.,
 RA Ashburner M., Gelbart W.M., Rubin G.M., Mungai C.J., Lewis S.E.;
 RT "Annotation of Drosophila melanogaster genome."
 RL Submitted (MAR-2000) to the EMBL/Genbank/DBJ databases.

(4)
 RN SEQUENCE FROM N.A.
 RP Adams M.D., Ceiniker S.E., Gibbs R.A., Rubin G.M., Venter J.C.;
 RA Submitted (MAR-2000) to the EMBL/Genbank/DBJ databases.

(5)
 RN SEQUENCE FROM N.A.
 RP FlyBase;
 RA Submitted (SEP-2002) to the EMBL/Genbank/DBJ databases.
 RL EMBL: AE003500; AA04952.1;
 DR FlyBase; FBgn0030674; CG8184.
 DR GO; GO:0005622; C:intracellular; IEA.
 DR GO; GO:0005743; C:mitochondrial inner membrane; IEA.
 DR GO; GO:0005488; F:binding; IEA.

DR
GO:
GO:0007497
E:BLUCLABE
RCCVATY,
ADD.

DT 01-OCT-2003 (IREMBLrel.25, last annotation update)
DE Putative single-strand binding protein.

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 2, 2004, 09:51:52 ; Search time 22 seconds
(without alignments)
274.556 Million cell updates/sec

Title: US-10-066-500-9

Perfect score: 1 MYFGNAVFLASRLSGGL.....QNVGLVLDLAVIRLVOK 117

Scoring table: BIOSUM62

Gapop 10.0 , Gapept 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Issued Patents AA.*

1: /cgn2_6/ptodata/2/1aa/5A.COMB.pep.*
2: /cgn2_6/ptodata/2/1aa/5B.COMB.pep.*
3: /cgn2_6/ptodata/2/1aa/6A.COMB.pep.*
4: /cgn2_6/ptodata/2/1aa/6B.COMB.pep.*
5: /cgn2_6/ptodata/2/1aa/PCUS.COMB.pep.*
6: /cgn2_6/ptodata/2/1aa/backfile1.pep.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	80	13.1	460	US-09-252-991A-20180	Sequence 20180, A
2	79	13.0	287	US-09-252-991A-30267	Sequence 30267, A
3	78	12.8	1527	US-09-418-710-27	Sequence 27, Appl
4	78	12.8	1531	US-09-418-710-39	Sequence 29, Appl
5	75	12.3	433	US-08-466-120-2	Sequence 2, Appl
6	75	12.3	433	PCT-US94-07266-2	Sequence 2, Appl
7	75	12.3	1525	US-09-418-710-69	Sequence 69, Appl
8	74.5	12.2	462	US-08-865-597A-2	Sequence 2, Appl
9	73.5	12.1	2509	US-08-149-C97D-35	Sequence 35, Appl
10	73	12.0	623	US-09-029-348-3	Sequence 3, Appl
11	73	12.0	626	US-09-029-348-2	Sequence 2, Appl
12	72.5	11.9	333	US-09-252-991A-28443	Sequence 28443, A
13	71.5	11.7	566	US-09-252-991A-20178	Sequence 20178, A
14	71.5	11.7	566	US-09-252-991A-18531	Sequence 18531, A
15	71	11.7	863	US-09-252-991A-26059	Sequence 26059, A
16	70	11.5	396	US-09-252-991A-32927	Sequence 32927, A
17	69	11.3	191	US-08-290-665A-198	Sequence 198, App
18	69	11.3	191	US-08-290-665A-199	Sequence 199, App
19	69	11.3	191	US-08-290-665A-200	Sequence 200, App
20	69	11.3	191	US-08-290-665A-201	Sequence 201, App
21	69	11.3	191	US-08-290-665A-202	Sequence 202, App
22	69	11.3	191	US-08-290-665A-203	Sequence 203, App
23	69	11.3	191	PCT-US95-10398-198	Sequence 198, App
24	69	11.3	191	PCT-US95-10398-199	Sequence 199, App
25	69	11.3	191	PCT-US95-10398-200	Sequence 200, App
26	69	11.3	191	PCT-US95-10398-201	Sequence 201, App
27	69	11.3	191	PCT-US95-10398-202	Sequence 202, App

28	69	11.3	191	5	PCT-US95-10398-203	Sequence 203, App
29	69	11.3	319	4	US-08-635-886C-226	Sequence 226, App
30	69	11.3	319	4	US-08-974-690C-226	Sequence 226, App
31	69	11.3	350	4	US-09-252-991A-19537	Sequence 19537, A
32	69	11.3	498	4	US-09-354-151-2	Sequence 2, Appl
33	69	11.3	788	4	US-09-198-452A-508	Sequence 508, App
34	68.5	11.2	788	2	US-08-918-914-4	Sequence 4, Appl
35	68	11.2	149	4	US-09-252-991A-21599	Sequence 21599, A
36	68	11.2	379	4	US-09-252-991A-31693	Sequence 31693, A
37	68	11.2	882	3	US-09-413-814-78	Sequence 78, Appl
38	67.5	11.1	518	4	US-09-252-991A-18753	Sequence 18753, A
39	67.5	11.1	727	2	US-08-475-844-9	Sequence 9, Appl
40	67.5	11.1	727	5	PCT-US95-08429-9	Sequence 9, Appl
41	67.5	11.1	1298	2	US-08-690-473-2	Sequence 2, Appl
42	67.5	11.1	1298	3	US-09-259-821A-2	Sequence 2, Appl
43	67.5	11.1	1298	3	US-08-843-659-2	Sequence 2, Appl
44	67	11.0	393	4	US-09-432-470-2	Sequence 2, Appl
45	67	11.0	393	4	US-09-432-470-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-09-252-991A-20180

Sequence 20180, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.

TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS

NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 30267
LENGTH: 287
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-30267

Query Match 13.0%; Score 79; DB 4; Length 287;
Best Local Similarity 37.5%; Pred. No. 0.3;
Matches 21; Conservative 7; Mismatches 24; Indels 4; Gaps 1;

QY 51 GDDSDVDTQOOQAAENSAVPTADTRSQPRDPVPP-----RRGRGHEPRRKQNVDG 102
DB 15 GRDPKRTQQRKRDHPAGVAAARPGPARFRRRPGGLGRGAGKRRRRPQVPG 70

RESULT 3
US-09-418-710-27
Sequence 27, Application US/09418710
Patent No. 6596482
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-042001
CURRENT APPLICATION NUMBER: US/09/418,710
CURRENT FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/JP98/01783
PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: JP 9/310027
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: JP 9/116570
PRIOR FILING DATE: 1997-04-18
NUMBER OF SEQ ID NOS: 73
SOFTWARE: FaSTSeq for Windows Version 4.0
SEQ ID NO 27
LENGTH: 1527
TYPE: PRT
ORGANISM: Homo sapiens
US-09-418-710-27

Query Match 12.8%; Score 78; DB 4; Length 1527;
Best Local Similarity 27.5%; Pred. No. 3.5;
Matches 22; Conservative 12; Mismatches 26; Indels 20; Gaps 3;

QY 48 DSGTDDSDVDTQOOQAAENSAVPTADTRSQPRDPVPP-----PR-----RRGRGHEPRR 95
DB 1255 EDDSDSEEEEEEEDYEVAGLRPRKTRKHSVIPPARGRRPKKHSTR 1314
QY 96 KK-----QNVDGVLDT 107
DB 1315 SQPKAPVDDAEYDELVLQT 1334

RESULT 4
US-09-418-710-29
Sequence 29, Application US/09418710
Patent No. 6596482
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-042001
CURRENT APPLICATION NUMBER: US/09/418,710
CURRENT FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/JP98/01783
PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: JP 9/310027
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: JP 9/116570
PRIOR FILING DATE: 1997-04-18
NUMBER OF SEQ ID NOS: 73
SOFTWARE: FaSTSeq for Windows Version 4.0
SEQ ID NO 29
LENGTH: 1531

TYPE: PRT
ORGANISM: Homo sapiens
US-09-418-710-29

Query Match 12.8%; Score 78; DB 4; Length 1531;
Best Local Similarity 27.5%; Pred. No. 3.5;
Matches 22; Conservative 12; Mismatches 26; Indels 20; Gaps 3;

QY 48 DSGTDDSDVDTQOOQAAENSAVPTADTRSQPRDPVPP-----PR-----RRGRGHEPRR 95
DB 1259 EDDSDSEEEEEEEDYEVAGLRPRKTRKHSVIPPARGRRPKKHSTR 1318

QY 96 KK-----QNVDGVLDT 107
DB 1319 SQPKAPVDDAEYDELVLQT 1338

RESULT 5
US-08-466-120-2
Sequence 2, Application US/08466120
Patent No. 5869284
GENERAL INFORMATION:
APPLICANT: CAO, ET AL.
TITLE OF INVENTION: Retinoic Acid Receptor Epsilon
NUMBER OF SEQUENCES: 4
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GILFILLAN,
ADDRESSEE: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/466,120
FILING DATE: June 6, 1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/07266
FILING DATE: 24 JUN 94
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 325800-354
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 433 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
US-08-466-120-2

Query Match 12.3%; Score 75; DB 2; Length 433;
Best Local Similarity 35.0%; Pred. No. 1.5;
Matches 21; Conservative 12; Mismatches 23; Indels 4; Gaps 3;

QY 35 GAATTGNSCTCRPDSDGSDVDTQOOQAAENSAVPTA-DTRSQ-PRDP--VRPPRRGRGF 90
DB 29 GSOAGSSCTLRKRAMPHSAGTACVGLAAEPTRALLTRAPPSPPTIRPPKXKKG 88

RESULT 6
PCT-US94-07266-2
Sequence 2, Application PC/TUS9407266

```

GENERAL INFORMATION:
APPLICANT: CAO, ET AL.
TITLE OF INVENTION: Retinoic Acid Receptor Epsilon
NUMBER OF SEQUENCES: 2
CORRESPONDENCE ADDRESS:
ADDRESSEE: CARELLA, BYRNE, BAIN, GIUFFILIANI,
ADDRESSER: CECCHI, STEWART & OLSTEIN
STREET: 6 BECKER FARM ROAD
CITY: ROSELAND
STATE: NEW JERSEY
COUNTRY: USA
ZIP: 07068

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 INCH DISKETTE
COMPUTER: IBM PS/2
OPERATING SYSTEM: MS-DOS
SOFTWARE: WORD PERFECT 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US94/07266
FILING DATE: Concurrently
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: FERRARO, GREGORY D.
REGISTRATION NUMBER: 36,134
REFERENCE/DOCKET NUMBER: 345800-125
TELECOMMUNICATION INFORMATION:
TELEPHONE: 201-994-1700
TELEFAX: 201-994-1744
INFORMATION FOR SEQ ID NO.: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 433 AMINO ACIDS
TYPE: AMINO ACID
STRANDEDNESS:
TOPOLOGY: LINEAR
MOLECULE TYPE: PROTEIN
PCT-US94-07266-2

Query Match          12.3%; Score 75; DB 5; Length 433;
Best Local Similarity 35.0%; Pred. No. 1.5;
Matches 21; Conservative 12; Mismatches 23; Indels 4; Gaps 3;

Cy      35 GAATGAGSCICRDSDGTDDSVDTQCCOAEASAVPTA-DTRSQ--VPPRRGRGP 90
       |:|::|||::|::|::|::|::|::|::|::|::|::|::|::|::|::|::|
Db      29 GSGAGGGSCIRREARMPHSHAGTAVGVLAEPFTALLTPRAPSPBPTETISPPKXKP 88

RESULT 7
US-09-418-710-69
Sequence 69, Application US/09418710
Patent No. 6596482
GENERAL INFORMATION:
APPLICANT: Jones, Michael H.
TITLE OF INVENTION: TRANSCRIPTIONAL REGULATOR
FILE REFERENCE: 06501-042001
CURRENT APPLICATION NUMBER: US/09/418,710
CURRENT FILING DATE: 1999-10-15
PRIOR APPLICATION NUMBER: PCT/JP98/01783
PRIOR FILING DATE: 1998-04-17
PRIOR APPLICATION NUMBER: JP 9/310027
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: JP 9/116570
PRIOR FILING DATE: 1997-04-18
NUMBER OF SEQ ID NOS: 73
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 69
LENGTH: 1525
TYPE: PRT
ORGANISM: Homo sapiens
US-09-418-710-69

```

```

Query Match Similarity      12.3%; Score 75; DB 4; Length 1525;
Best Local Similarity      27.9%; Pred No. 7.9;
Matches      24; Conservative      12; Mismatches      24; Indels      26; Gaps      4;

QY      48 DDGSGTDSVD-----TQQQAENSAVPTADTSQPRDPVR-----PP-----RGR      68
          :::::
          ESSASEDESEDEEEEEEEDDYEAAGILNFRFTIRKGKSHVIPPAARSGRRPK      1305
DB      1246 KPHSTRSQPRAPPVDAEVDLVLQT      1331
          |||||
          QY      89 GHPEPRKK-----QNVGVLDLT      107
DB      1306 KPHSTRSQPRAPPVDAEVDLVLQT      1331
          |||||

RESULT 8
US-08-865-597A-2
; Sequence 2, Application US/08865597A
; Patent No. 5973131
; GENERAL INFORMATION:
; APPLICANT: Cao, Liang
; APPLICANT: Yen, Kwok Yung
; TITLE OF INVENTION: PENNICILLUM MARNEFFEI ANTIGENIC PROTEIN 1
; NUMBER OF SEQUENCES: 2
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Cooper & Dunham LLP
; STREET: 1185 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.30
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/865,597A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Chan, Albert Wai-Kit
; REGISTRATION NUMBER: 36,479
; REFERENCE/DOCKET NUMBER: 50288-A
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (212) 391-0400
; TELEFAX: (212) 391-0525
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 462 amino acids
; TYPE: amino acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: protein
; US-08-865-597A-2

Query Match      12.2%; Score 74.5; DB 2; Length 462;
Best Local Similarity      29.2%; Pred. No. 1.9;
Matches      21; Conservative      10; Mismatches      36; Indels      5; Gaps      1

QY      12 SRSLGGLITTEBHIAFLGTGCATMGSCICRPDSCGIDSDVPQQQAENSAVPTA      71
          :::::
DB      328 SRSLSGIAGIKGKDIFAGTGPAFTISST-----EASTAPAPSIPQTPEDIVPAT      382
          :::::

QY      72 DTRSQPRDPVR      83
          |   |
DB      383 STAPGPAPRAP      394

RESULT 9
US-08-149-097D-35
; Sequence 35, Application US/08149097D
; Patent No. 5874236
; GENERAL INFORMATION:
; APPLICANT: Harpold, Michael

```

APPLICANT: Ellis, Steven
APPLICANT: Williams, Mark
APPLICANT: Feldman, Daniel
APPLICANT: McCue, Ann
APPLICANT: Brenner, Robert
TITLE OF INVENTION: HUMAN CALCIUM CHANNEL COMPOSITIONS AND
METHODS
NUMBER OF SEQUENCES: 40
CORRESPONDENCE ADDRESS:
ADDRESSEE: Brown, Martin, Haller & McClain
STREET: 1660 Union Street
CITY: San Diego
STATE: California
COUNTRY: USA
ZIP: 92101-2926
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/149,097D
FILING DATE: 05-NOV-1993
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/105,536
FILING DATE: 11-AUG-1993
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US92/06903
FILING DATE: 14-AUG-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/914,231
FILING DATE: 13-JUL-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/868,354
FILING DATE: 10-APR-1992
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/745,206
FILING DATE: 15-AUG-1991
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/620,250
FILING DATE: 30-NOV-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/482,384
FILING DATE: 20-FEB-1990
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/603,751
FILING DATE: 04-APR-1989
PRIOR APPLICATION DATA:
APPLICATION NUMBER: WO PCT/US89/01408
FILING DATE: 04-APR-1989
APPLICATION DATA:
APPLICATION NUMBER: US 07/176,899
FILING DATE: 04-APR-1988
ATTORNEY/AGENT INFORMATION:
NAME: Seidman, Stephanie L.
REGISTRATION NUMBER: 33,779
REFERENCE/DOCKET NUMBER: 6362-55038
TELECOMMUNICATION INFORMATION:
TELEPHONE: (619) 238-0999
TELEFAX: (619) 238-0062
INFORMATION FOR SEQ ID NO: 35:
SEQUENCE CHARACTERISTICS:
LENGTH: 2509 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
HYPOTHETICAL: NO
ANTI-SENSE: NO
FRAGMENT TYPE: Internal
ORIGINAL SOURCE: Internal
FEATURE:

OTHER INFORMATION: /product= "Alpha1a-1 subunit of
OTHER INFORMATION: human calcium channel"
US-08-149-097D-35
Query Match 12.1%; Score 73.5; DB 2; Length 2509;
Best Local Similarity 24.2%; Pred. No. 23;
Matches 31; Conservative 9; Mismatches 39; Indels 49; Gaps 4;
QY 12 SRSAGGILLTLEHIAFLTGC-----AATTGNSC----- 44
DB 2251 SRSPEG-----RHMAHQSSSVSGSPASTGISTPRGRQLPQTEPRPHYS 2305
QY 45 -ICRDSGTDSVDTQCCQAENSAY-----PTADRSQPRDPVPRRG 87
DB 2306 PYIRAGSGSPQQCCQCCQCCQAVARRGATSGPRRYPETAPLAGDRPFGHSG 2365
QY 88 RGFHEPRR 95
DB 2366 RSPRMERR 2373
RESULT 10
US-09-029-348-3
; Sequence 3, Application US/09029348
; Patent No. 6171827
; GENERAL INFORMATION:
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER
; TITLE OF INVENTION: NOVEL PROCOLLAGENS
; FILE REFERENCE: 0087857PUS LISTING
; CURRENT APPLICATION NUMBER: US/09/029,348
; CURRENT FILING DATE: 1998-05-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 3
; LENGTH: 623
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE
; OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS
US-09-029-348-3
Query Match 12.0%; Score 73; DB 3; Length 623;
Best Local Similarity 28.8%; Pred. No. 42; Mismatches 30; Conservative 10; Indels 28; Gaps 7;
Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 7;
QY 16 GGGLLTLEH---IAHFLGTGAATTGNS-----CICRDSGT---DGS 55
DB 8 GSWLLALHPTIILAQCAVEGCSHLQSYADRDVWKPEPCQICVC--DSGVLCDI 65
QY 56 V-DTQCCQAENSAY---TADRSQPRDPVPRRGPFHPR 94
DB 66 ICDDQLDCPNPPIPGBCCAVCPQEPPIATPFP--NGQCPGPK 108
RESULT 11
US-09-029-348-2
; Sequence 2, Application US/09029348
; Patent No. 6171827
; GENERAL INFORMATION:
; APPLICANT: THE VICTORIA UNIVERSITY OF MANCHESTER
; TITLE OF INVENTION: NOVEL PROCOLLAGENS
; FILE REFERENCE: 0087857PUS LISTING
; CURRENT APPLICATION NUMBER: US/09/029,348
; CURRENT FILING DATE: 1998-05-07
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: Patentin Ver. 2.0
; SEQ ID NO 2
; LENGTH: 626
; TYPE: PRT
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: SEQUENCE

OTHER INFORMATION: DERIVED FROM CDNA OF PROCOLLAGENS
US-09-029-348-2

Query Match 12.0%; Score 73; DB 3; Length 626;
Best Local Similarity 28.8%; Pred. No. 4.2;
Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 7;

QY 16 GGGLLTTEEH---IAHFLGTGATTWGNS-----CICRDSGT---DGS 55
DB 8 GSWLLALHPIILIAQGEAVEGGCSHLGQSVADRDVWKPCCOICVC--DSGSVLCDDI 65

QY 56 V-DTQQQAENSAPV---TADTSQPRDPVPRPRRGSGHEPR 94
DB 66 ICDDDELDPNPEIPFGCCAVCPQPTAPTRPP-NGQGPGCFK 108

RESULT 12

US-09-252-991A-28443
Sequence 28443, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 28443

LENGTH: 333
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-28443

Query Match 11.9%; Score 72.5; DB 4; Length 333;
Best Local Similarity 27.5%; Pred. No. 2.1;
Matches 25; Conservative 7; Mismatches 24; Indels 35; Gaps 3;

QY 29 HFIQTGAATTWNSCICRDSGTDSVDTQQQAENSAPV---TADTSQPRDPVPR 82
DB 216 HRIARTGG-----DEGADSGRHHQPRQAHRRRPLGPDAGDHRHRCAGLEPR 262

QY 83 P-----PRRGSGHEPRRKX 97
DB 263 QRTGDPAGHREAPSGSLRFRPRRHHLPFRRR 293

RESULT 13

US-09-252-991A-20178
Sequence 20178, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 20178

LENGTH: 562
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-20178

Query Match 11.7%; Score 71.5; DB 4; Length 562;
Best Local Similarity 29.7%; Pred. No. 5.5;
Matches 22; Conservative 6; Mismatches 29; Indels 17; Gaps 2;

QY 36 AATTWNSCICRDSGTDSVDTQQQAENSAPVPTADTSQPRDPVPRPRRGSGHEPR-- 93
DB 79 AATPAG-----EDGGQLHGGRPRRLPAGSGACAPADPRRPGRRRGAQRPP 127

QY 94 ----RKKNVDCI 103
DB 128 VAGSRARRSGTDAL 141

RESULT 14

US-09-252-991A-18531
Sequence 18531, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 18531

LENGTH: 566
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-18531

Query Match 11.7%; Score 71.5; DB 4; Length 566;
Best Local Similarity 23.6%; Pred. No. 5.6;
Matches 29; Conservative 10; Mismatches 37; Indels 47; Gaps 4;

QY 23 LEEHIAHFLGTGATTWGNSC-ICRDSGTDSVD-----TQQQAENSAPVPTA 71
DB 118 LERLRQPGAGATGATRRSSCRIVQADPGRSVDPGHPHQAORAGSGTGNAS 177

QY 72 DTSQPRDP-----VRPRR-----GRGHEPRR 95
DB 178 RTRRAPRAPGGQLPAGKRGVROAGDGGARQLRPSRRPAAGTRLHGAARRPVP 237

QY 96 KKQ 98
DB 238 RQR 240

RESULT 15

US-09-252-991A-26099
Sequence 26099, Application US/09252991A
Patent No. 6551795

GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
TITLE OF INVENTION: AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
CURRENT FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 26099

LENGTH: 863
TYPE: PRT
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-26099

Query Match 11.7%; Score 71; DB 4; Length 863;
 Best Local Similarity 29.1%; Pred. No. 11;
 Matches 25; Conservative 8; Mismatches 33; Indels 20; Gaps 3;

Qy	31	LGTCGAATT-----WNSCICRDDSGTDSVDTQQQAENSAPVTADT-----RS	75
Db	335	LGPGTAARTTHRPWPGAGAGDALRPDAGQADRLKGDPRRSQAQADPPAALRAAGRR	394
Qy	76	QPRDPVVRP-----RGRGPHPRRK	96
Db	395	QPAVPRQPGASGLRRRRGDHRLRR	420

Search completed: April 2, 2004, 09:55:20
 Job time : 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 2, 2004, 09:35:21 ; Search time 17 Seconds

(without alignments)
358.365 Million cell updates/sec

Title: US-10-066-500-9

Perfect score: 609

Sequence: 1 MIVGNAVFLASRLSGGL.....QNVDAVLDTLAVIRFLVVK 117

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 14681 seqs, 52070155 residues

Total number of hits satisfying chosen parameters: 141681

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database: SwissProt_42.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	79	13.0	612	1	THIC_STRCO
2	78.5	12.9	189	1	SSB_ALCEU
3	78	12.8	1483	1	BALB_HUMAN
4	75	12.3	286	1	MSA2_PLAFL
5	73.5	12.1	2505	1	CCNA_HUMAN
6	73	12.0	281	1	MSA2_PLAFL
7	73	12.0	353	1	TGNI_MOUSE
8	73	12.0	1466	1	CA13_HUMAN
9	72.5	11.9	262	1	MSA2_PLAFL
10	72.5	11.9	272	1	MSA2_PLAFL
11	72.5	11.9	274	1	MSA2_PLAFL
12	72.5	11.9	287	1	MSA2_PLAFL
13	72.5	11.9	300	1	MSA2_PLAFL
14	72.5	11.9	300	1	MSA2_PLAFL
15	72.5	11.9	302	1	MSA2_PLAFL
16	72.5	11.9	347	1	MSA2_PLAFL
17	72.5	11.9	458	1	YB1_CAEEL
18	72.5	11.8	1787	1	CHD3_MOUSE
19	71	11.7	1479	1	BALB_MOUSE
20	70.5	11.6	3726	1	TRX_DROME
21	70	11.5	445	1	NRH_MOUSE
22	69	11.3	1944	1	CHD3_HUMAN
23	68	11.2	424	1	COT1_BOVIN
24	68	11.2	445	1	NRH_MOUSE
25	68	11.2	504	1	FTSY_YEAST
26	68	11.2	702	1	EXO1_YEAST
27	67.5	11.1	399	1	SIR3_HUMAN
28	67.5	11.1	727	1	CTCF_HUMAN
29	67.5	11.1	1298	1	ICP4_HSV1
30	67	11.0	1393	1	CIV4_HUMAN
31	67	11.0	1202	1	NOS3_HUMAN
32	67	11.0	3828	1	TRX_DROVI
33	66.5	10.9	217	1	YK4_BEV

ALIGNMENTS

34	66.5	10.9	268	1	EP34_HCVNA	P16768 human cytom
35	66.5	10.9	276	1	MSA2_PLAFL	O99320 plasmodium
36	66.5	10.9	343	1	GIN2_STVR	P19432 streptomyc
37	66.5	10.9	423	1	COT1_HUMAN	P10589 homo sapien
38	66.5	10.9	684	1	EP34_HCVNA	P17151 human cytom
39	66	10.8	228	1	EP34_HCVNA	P52803 homo sapien
40	66	10.8	228	1	EP34_HCVNA	O08543 mus musculu
41	66	10.8	324	1	HE31_STRAW	O82676 streptomyc
42	66	10.8	736	1	DVL2_XENLA	P51142 xenopus lae
43	66	10.8	1021	1	MAPA_MOUSE	O99YR6 mus musculu
44	66	10.8	1380	1	CYNA_LEIDO	O27675 leishmania
45	66	10.8	2716	1	OSA_DROME	O81n94 drosophila

RESULT 1
THIC_STRCO STANDARD; PRT; 612 AA.
ID Q9X9D0;
AC 30-MAY-2000 (Rel. 39, Created)
DT 30-MAY-2000 (Rel. 39, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Thiamine biosynthesis protein thic.
GN THIC OR SCO3928 OR SCO11.11.
OS Streptomyces coelicolor.
OC Bacteria; Actinobacteria; Actinobacteridae; Actinomycetales;
OC Streptomycinae; Streptomycetaceae; Streptomyces.
OX NCBI_Taxid=1902;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=A3(2) / M145;
RX MEDLINE=21996410; PubMed=1200953;
RA Bentley S.D., Chater K.F., Cerdano-Tarraga A.-M., Challis G.L.,
RA Thomson N.R., James K.D., Harris D.E., Quail M.A., Kieser H.,
RA Harper D., Barman A., Brown S., Chandra G., Chen C.W., Collins M.,
RA Cronin A., Fraser A., Goble A., Hidalgo J., Hornsby T., Howarth S.,
RA Huang C.-H., Kleser T., Larke L., Murphy L., Oliver K., O'Neill S.,
RA Rabinowitsch E., Rajandream M.A., Rutherford K., Rutter S.,
RA Seeger K., Saunders D., Sharp S., Squares R., Squares S., Taylor K.,
RA Warren T., Wietzorrek A., Woodward J., Barrrell B.G., Parkhill J.,
RA Hopwood D.A.;
RT "Complete genome sequence of the model actinomycete Streptomyces
RT coelicolor A3(2)." ;
RL Nature 417:141-147(2002).
CC -!- FUNCTION: Required for the synthesis of the hydromethylpyrimidine
CC (HMP) moiety of thiamine (4-amino-2-methyl-5-
CC hydroxymethylpyrimidine) (By similarity).
CC -!- PATHWAY: Thiamine biosynthesis.
CC -!- SIMILARITY: Belongs to the thic family.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@sib-sib.ch).
CC
CC EMBL: AL39118; CAB4696.1; --
CC PIR: T37181; T37181.
CC HAMAP: MF 00089; -!-
CC InterPro: IPR002817; Thic.
CC Pfam: PF01964; Thic; 1.
CC TrEMBL: TIGR00190; thic; 1.
CC Thiamine biosynthesis; Complete proteome.
KW SEQUENCE 612 AA; 67371 MW; 290BF2454200C68 CRC64;
SQ
Query March 13.0%; Score 79; DB 1; Length 612;
Best Local Similarity 31.2%; Pred. No. 2.4;
Matches 30; Conservative 7; Mismatches 37; Indels 22; Gaps 4;

```

QY 39 TWGNSCICRDSG--TDESDVTQOOOA-----ENSAVPTADRSQPRDPVAP-----83
DB 60 TNGQSVTLVDTGPGPTDPLVDVVRGLAPLENNIIARGDEEYAGRPVPEDDGIKHT 119
QY 84 -PRRGG-----PHEPRKKONVDGLVDTLAVR 112
DB 120 SPRGGLRNDAVFPGRPRGRGRDGNMAYTQLAVAR 155

RESULT 2
SSB_ALCEU STANDARD; PRT; 188 AA.
ID SSB_ALCEU
AC P59927; Q7WX07;
DT 15-MAR-2004 (Rel. 43, Created)
DT 15-MAR-2004 (Rel. 43, Last sequence update)
DT 15-MAR-2004 (Rel. 43, Last annotation update)
DE Single-strand binding protein (SSB) (Helix-destabilizing protein).
GN SSB OR PHG335.
OS Alcaligenes eutrophus (Ralstonia eutropha).
OC Plasmid megaplasmid PHG1.
OC Bacteria; Proteobacteria; Betaproteobacteria; Burkholderiales;
OC Burkholderiaceae; Ralstonia.
OX NCBI_TaxID=510;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=H16 / DSM 428 / ATCC 17699;
RA Schwartz E., Henne A., Cramm R., Bittiger T., Friedrich B.,
RA Gottschalk G.;
RT "Complete nucleotide sequence of PHG1: a Ralstonia eutropha H16
RT megaplasmid encoding key enzymes of H2-based lithoautotrophy and
RT anaerobiosis."
RL J. Mol. Biol. 332:369-383 (2003).
CC -1- FUNCTION: This protein is essential for replication of the
CC chromosome. It is also involved in DNA recombination and repair
CC (by similarity).
CC -1- SIMILARITY: Contains 1 SSB domain.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/
CC or send an email to license@isb-sib.ch).
CC -----
CC EMBL: AY305378; AAP86084.1; -.
CC DR PROSITE: PS0935; SSB; 1.
CC KM DNA-binding; DNA repair; DNA replication; Plasmid.
CC FT DOMAIN 4 109 SSB.
CC SQ SEQUENCE 188 AA; 20451 MW; B43832FBC232CF4 CRC64;

Query Match 12.9%; Score 78.5; DB 1; Length 188;
Best Local Similarity 33.8%; Pred. No. 0.71;
Matches 26; Conservative 8; Mismatches 30; Indels 13; Gaps 5;

QY 32 GTGGAATTGNSCTCCDSDGTDSDVTQOOAENSAVPTADRSQ--RDPVPRRGGRG 89
DB 110 GRGASD--GDS-----DSCTDRSASQSPASQSRAPPTGQ--RQPARQAPQSPENGRG 161
QY 90 PHE---PRRKQNVGL 103
DB 162 DFVEDIPFAPALDGI 178

RESULT 3
BAIB_HUMAN STANDARD; PRT; 1483 AA.
ID Q95039; O95247; O95277;
AC Q95039; O95247; O95277;
DT 28-FEB-2003 (Rel. 41, Created)
DT 28-FEB-2003 (Rel. 41, Last sequence update)
DT 28-FEB-2003 (Rel. 41, Last annotation update)
DE Bromodomain adjacent to zinc finger domain protein 1B (Williams-Beuren

```

```

DE syndrome chromosome region 9 protein) (WBRS9) (Williams syndrome
DE transcription factor) (hWALP2).
GN BAZ1B OR WBSCR9 OR WBSC10 OR WSTRF.
OS Homo sapiens (human).
OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Primates; Catarrhini; Hominiidae; Homo.
OX NCBI_TaxID=9606;
RN [1]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RA MEDLINE=99077764; PubMed=9858827;
RA Peoples R.J., Cisco M.J., Kaplan P., Francke U.;
RT "Identification of the WBSCR9 gene, encoding a novel transcriptional
RT regulator, in the Williams-Beuren syndrome deletion at 7q11.23."
RL Cytogenet. Cell Genet. 82:238-246 (1998).
RN [2]
RP SEQUENCE FROM N.A. (ISOFORM 1).
RA MEDLINE=99047530; PubMed=9828126;
RA Lu X., Meng X., Morris C.A., Keating M.T.;
RA "A novel human gene, WSTRF, is deleted in Williams Syndrome."
RL Genomics 54:241-249 (1998).
RN [3]
RP SEQUENCE FROM N.A. (ISOFORMS 1 AND 2).
RC TISSUE=Testis;
RA MEDLINE=20130112; PubMed=10662543;
RA Jones M.H., Hamana N., Nezu J., Shimane M.;
RA "A novel family of bromodomain genes."
RL Genomics 63:40-45 (2000).
RN [4]
RP SEQUENCE FROM N.A.
RA Mink P., Graves T., Duckels G., Harrison M., Waterston R.;
RA Submitted (DEC-1993) to the EMBL/GenBank/DBJ databases.
RN [5]
RP MEDLINE=21977304; PubMed=11980720;
RA Bozhenok L., Wade P.A., Vargh-Welsh P.;
RT "WSRF-1SWI chromatin remodeling complex targets heterochromatic
RT replication foci."
RL EMO J. 21:2231-2241 (2002).
CC -1- FUNCTION: Forms a chromatin remodeling complex that mobilizes
CC nucleosomes and reconfigures irregular chromatin to a regular
CC nucleosomal array structure.
CC -1- SUBUNIT: Interacts with ISWI (imitation SWI protein) to form the
CC WSRF-1SWI chromatin remodeling complex (NICH).
CC -1- SUBCELLULAR LOCATION: Nuclear (potential). Accumulates in
CC pericentromeric heterochromatin during replication.
CC -1- ALTERNATIVE PRODUCTS:
CC Name=1;
CC IsoId=G9UGC-1; Sequence=Displayed;
CC Name=2;
CC IsoId=G9UGC-2; Sequence=VSP_000552;
CC -1- TISSUE SPECIFICITY: Ubiquitously expressed with high levels of
CC expression in heart, brain, placenta, skeletal muscle and ovary.
CC -1- DEVELOPMENTAL STAGE: Expressed at equal levels in 19-23 weeks old
CC fetal tissues.
CC -1- DISEASE: Haploinsufficiency of BAZ1B may be the cause of certain
CC cardiovascular and musculo-skeletal abnormalities observed in
CC Williams-Beuren syndrome (WBS), a rare developmental disorder. It
CC is a contiguous gene deletion syndrome involving genes from
CC chromosome band 7q11.23.
CC -1- SIMILARITY: Belongs to the WAL family.
CC -1- SIMILARITY: Contains 1 bromodomain.
CC -1- SIMILARITY: Contains 1 PBD domain.
CC -1- SIMILARITY: Contains 1 PBD-type zinc finger.
CC -1- SIMILARITY: Contains 1 WAC domain.
CC -1- CAUTION: Ref.2 sequence differs from that shown due to frameshifts
CC in positions 1031, 1042 and 1422.
CC -1- CAUTION: Ref.3 sequence differs from that shown due to a
CC frameshift in position 1478.
CC -1- CAUTION: Ref.4 sequence differs from that shown due to erroneous
CC gene model prediction.
CC -----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration

```

between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

EMBL; AF084479; AAD08675.1; -
EMBL; AF072810; AAC97879.1; ALT_FRAME.
EMBL; AB032253; BAA89210.1; ALT_FRAME.
EMBL; AC005074; AAD04720.1; ALT_SEQ.
EMBL; AC005089; -; NOT_ANNOTATED_CDS.
HSSP; Q92831; 1B91.
TRANSFAC; T04145; -
Gene; HGNC; 961; BAZ1B.
MIM; 605681; -
GO; GO:0005634; Cytocellus; NAS.
GO; GO:0003700; F:transcription factor activity; NAS.
GO; GO:0008270; Zinc ion binding; NAS.
GO; GO:0006350; P:transcription; NAS.
InterPro; IPR001487; Bromodomain.
InterPro; IPR004022; DDT dom.
InterPro; IPR001965; ZnF-PHD.
Pfam; PF00439; Bromodomain; 1.
Pfam; PF00628; PHD; 1.
PRINTS; PR00503; BROMODOMAIN.
SMART; SM00297; BROMO; 1.
SMART; SM00571; DDT; 1.
SMART; SM00249; PHD; 1.
PROSITE; PS00633; BROMODOMAIN_1; FALSE_NEG.
PROSITE; PS00104; BROMODOMAIN_2; 1.
PROSITE; PS00827; DDT; 1.
PROSITE; PS01359; ZF_PHD_1; 1.
PROSITE; PS00106; ZF_PHD_2; 1.
Transcription regulation; Bromodomain; Zinc-finger; Coiled coil; Nuclear protein; Alternative splicing; Williams-Beuren syndrome.
DOMAIN; 20 126
FT DOMAIN 604 668 DDT.
FT ZN_FING 1184 1234 PHD-TYPE.
FT DOMAIN 1356 1426 BROMODOMAIN.
FT DOMAIN 306 578 LYS-RICH.
FT DOMAIN 533 586 COILED COIL (POTENTIAL).
FT DOMAIN 768 814 COILED COIL (POTENTIAL).
FT DOMAIN 850 893 COILED COIL (POTENTIAL).
FT DOMAIN 1245 1283 COILED COIL (POTENTIAL).
FT DOMAIN 1261 1273 POLY-GLU.
FT VARSPLIC 660 Missing (in isoform 2).
FT CONFLICT 14 14 /FTid=VSP_000552.
FT CONFLICT 22 22 L->N (IN REF. 3).
FT CONFLICT 136 136 L->F (IN REF. 3).
FT CONFLICT 191 191 N->E (IN REF. 1).
FT CONFLICT 298 298 N->D (IN REF. 4).
FT CONFLICT 823 823 Y->V (IN REF. 4).
FT CONFLICT 1191 1191 E->R (IN REF. 3).
FT CONFLICT 1354 1354 R->P (IN REF. 3).
FT CONFLICT 1438 1438 K->M (IN REF. 2).
FT CONFLICT 1438 1438 A->V (IN REF. 3).
SEQUENCE 1483 AA; 170902 MW; 0CC146FEBB954261 CRC64;

Query Match 12.8%; Score 78; DB 1; Length 1483;
Best Local Similarity 27.5%; Pred. No. 8;
Matches 22; Conservative 12; Mismatches 26; Indels 20; Gaps 3;

QY 48 DSGTDSVTOOQQAENSAVPTADTRSGPRDPVR-----PP-----RGRGPRR 95
DB 1255 EDDSDSEEEBEEBDEYVAGLRPRKTRIGHSVIPPAASGRPGKKPSTR 1314
QY 96 KK-----QNVDELVDLT 107
DB 1315 SQPRAPVDDAEVDLVLCT 1334
RESULT 4

MSA2_PLAF1
ID_MSA2_PLAF1 STANDARD; PRT; 286 AA.
AC PS0456;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Merozoite surface antigen 2 precursor (MSA-2).
GN MSA2.
OS Plasmodium falciparum (isolate 311).
CC Eukaryota; Alveolata; Apicomplexa; Haemosporidia; Plasmodium.
CC NCBI_TaxID=57265;
RX MEDLINE=92178286; Pubmed=1542312;
RA Marshall V.M., Coppel R.L., Anders R.F., Kemp D.J.;
RT "Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2) of Plasmodium falciparum."
RL Mol. Biochem. Parasitol. 50:181-184(1992).
CC -!- FUNCTION: May play a role in the merozoite attachment to the erythrocyte.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor (potential).
CC -!- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation - the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@isb-sib.ch).

EMBL; M73809; AAA2697.1; -
InterPro; IPR001136; MSA_2.
Pfam; PF00985; MSA_2; 1.
Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat; GPI-anchor; Merozoite.
SIGNAL 1 20 POTENTIAL.
FT CHAIN 21 262 MEROZOITE SURFACE ANTIGEN 2.
FT PROPEP 263 286 HYDROPHOBIC REMOVED DURING MATURATION (BY SIMILARITY).
FT DOMAIN 44 212 POLYMORPHIC REGION.
FT DOMAIN 115 122 POLY-THR.
FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 163 163 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 259 259 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 260 260 N-LINKED (GLCNAC. . .) (POTENTIAL).
SEQUENCE 286 AA; 28844 MW; DIF4947CEB8D5805 CRC64;

Query Match 12.3%; Score 75; DB 1; Length 286;
Best Local Similarity 34.6%; Pred. No. 2.5;
Matches 27; Conservative 6; Mismatches 25; Indels 20; Gaps 5;

QY 32 GTGGA-----ATTGNSCTCRDSDGTSV-----DT-----QQQAENSAVPTADT 73
DB 147 GNGGVQKQENQANKETQNNNSNV-QQDSQTKSNVPTDADTKSPTAQQAENSA-PTAEQ 204
QY 74 RSQPRDPVRPPRRGRGP 91
DB 205 TESPELQSPANKGTGQH 222
RESULT 5
CCAA HUMAN STANDARD; PRT; 2505 AA.
AC 000655; P78510; P78511; Q16290; Q92690; Q99790; Q99791; Q99792;
AC Q99793;
DT 15-JUL-1999 (Rel. 38, Created)
DT 15-JUL-1999 (Rel. 38, Last sequence update)
DT 10-OCT-2003 (Rel. 42, Last annotation update)
DE Voltage-dependent P/Q-type calcium channel alpha-1A subunit (Calcium

channel, L type, alpha-1 polypeptide isoform 4) (Brain calcium channel I) (BI).

DE CACNA1A OR CACNA1A4 OR CAC4 OR CACN3.

OS Homo sapiens (Human).

OC Eukaryota; Euteleostomi; Chordata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Homo.

OX NCBI_TaxID=9606;

RN [1]

RP SEQUENCE FROM N.A. (ISOFORMS BI-1-GGCAG/1A-1 AND BI-1/1A-2).

RC TISSUE=Neuron.

RX MEDLINE=99158614; PubMed=10049321;

RA Hans M., Urrutia A., Deal C., Brust P.F., Stauderman K., Ellis S.B., Harpold M.W., Johnson E.C., Williams M.B.,

RT "Structural elements in domain IV that influence biophysical and pharmacological properties of human alpha1A-containing high-voltage-activated calcium channels."

RL Biophys. J. 76:1384-1400 (1999).

RN [2]

RP SEQUENCE FROM N.A. (ISOFORM BI-1(V1)), AND VARIANTS FHM.

RC TISSUE=Cerebellum;

RX MEDLINE=97053792; PubMed=8898206;

RA Ophoff R.A., Terwindt G.M., Vergouwe M.N., van Eljk R., Oefner P.J., Hoffman S.M.G., Lamerding J.E., Mohrenweiser H.W., Bulman D.E., Ferrari M., Haan J., Lindhout D., van Ommen G.-J.B., Hofker M.H., Ferrari M.D., Fritts R.R.,

RT "Familial hemiplegic migraine and episodic ataxia type-2 are caused by mutations in the Ca²⁺ channel gene CACNA1A."

RL Cell 87:543-552 (1996).

RN [3]

RP SEQUENCE FROM N.A., AND ALTERNATIVE SPLICING.

RC TISSUE=Brain;

RX MEDLINE=97141920; PubMed=8988170;

RA Zhubenko O., Bailey J., Bonnen P.E., Ashizawa T., Stockton D.W., Amos C., Dobyns W.B., Subramony S.H., Zoghbi H.Y., Lee C.C.,

RT "Autosomal dominant cerebellar ataxia (SCA6) associated with small polyglutamine expansions in the alpha 1A-voltage-dependent calcium channel."

RL Nat. Genet. 15:62-69 (1997).

RN [4]

RP SEQUENCE OF 1233-1651 FROM N.A.

RA Lamerding J.E., McCreedy P.M., Skowronski E., Adamson A.W., Pan H., Velasco N., Do L., Regala W., Ramirez M., Stillwagen S., Dangnan L., Poundsone P., Christensen M., Georgescu A., Avila J., Liu S., Altic C., Andreise T., Trankheim M., Antic-Keller G., Coefield J., Duarte S., Lucas S., Bruce R., Thomas P., Quan G., Krommiller B., Arellano A., Montgomery M., Ow D., Nolan M., Trong S., Kobayashi A., Olsen A.S., Carrano A.V.,

RT Submitted (Jun-1998) to the EMBL/GenBank/DBJ databases.

RN [5]

RP SEQUENCE OF 1693-1807 FROM N.A.

RC TISSUE=Lung carcinoma;

RX MEDLINE=95123449; PubMed=7823133;

RA Barry E.L.R., Viglione M.P., Kim Y.I., Froehner S.C.,

RT "Expression and antibody inhibition of P-type calcium channels in human small-cell lung carcinoma cells."

RL J. Neurosci. 15:274-283 (1995).

RN [6]

RP SEQUENCE OF 2038-2258 FROM N.A.

RC TISSUE=Frontal cortex;

RX MEDLINE=96102310; PubMed=8525433;

RA Margolis R.L., Breschel T.S., Li S.H., Kidwai A.S., Antonarakis S.E., McInnis M.G., Ross C.A.,

RT "Characterization of cDNA clones containing CCA trinucleotide repeats derived from human brain."

RL Somat. Cell Mol. Genet. 21:279-284 (1995).

CC -1- FUNCTION: Voltage-sensitive calcium channels (VSCC) mediate the entry of calcium ions into excitable cells and are also involved in a variety of calcium-dependent processes, including muscle contraction, hormone or neurotransmitter release, gene expression, cell motility, cell division and cell death. The isoform alpha-1A gives rise to P and/or Q-type calcium currents. P/Q-type calcium channels belong to the "high-voltage activated" (HVA) group and

are blocked by the funnel toxin (Ftx) and by the omega-agatoxin-IVA (omega-Aga-IVA). They are however insensitive to dihydropyridines (DHP), and omega-conotoxin-GVIA (omega-CTX-GVIA). SUBUNIT: VOLTAGE-DEPENDENT CALCIUM CHANNELS ARE MULTISUBUNIT COMPLEXES, CONSISTING OF ALPHA-1, ALPHA-2, BETA AND DELTA SUBUNITS IN A 1:1:1:1 RATIO. THE CHANNEL ACTIVITY IS DIRECTED BY THE FORMING AND VOLTAGE-SENSITIVE ALPHA-1 SUBUNIT. IN MANY CASES, THIS SUBUNIT IS SUFFICIENT TO GENERATE VOLTAGE-SENSITIVE CALCIUM CHANNEL ACTIVITY. THE AUXILIARY SUBUNITS BETA AND ALPHA-2/DELTA LINKED BY A DISULFIDE BRIDGE REGULATE THE CHANNEL ACTIVITY.

CC -1- SUBCELLULAR LOCATION: Integral membrane protein.

CC -1- ALTERNATIVE PRODUCTS:

CC Event=Alternative splicing; Named isoforms=7;

CC Comment=Additional isoforms seem to exist;

CC Name=BI-1(V1)-GGCAG; Synonyms=1A-1;

CC IsoId=O00555-1; Sequence=Displayed;

CC Name=BI-1; Synonyms=1A-2;

CC IsoId=O00555-2; Sequence=VSP_000875;

CC Name=BI-1(V1);

CC IsoId=O00555-3; Sequence=VSP_000871, VSP_000875;

CC Name=BI-1(V1)-GGCAG;

CC IsoId=O00555-4; Sequence=VSP_000871;

CC Name=BI-1(V2);

CC IsoId=O00555-5; Sequence=VSP_000872;

CC Name=BI-1(V2)-GGCAG;

CC IsoId=O00555-6; Sequence=VSP_000872;

CC Name=BI-1(V2,V3);

CC IsoId=O00555-7; Sequence=VSP_000873, VSP_000874;

CC -1- TISSUE SPECIFICITY: Brain specific; mainly found in cerebellum, cerebral cortex, thalamus and hypothalamus. No expression in heart, kidney, liver or muscle. Purkinje cells contain predominantly P-type VSCC, the Q-type being a prominent calcium current in cerebellar granule cells.

CC -1- DOMAIN: Each of the four internal repeats contains five hydrophobic transmembrane segments (S1, S2, S3, S5, S6) and one positively charged transmembrane segment (S4). S4 segments probably represent the voltage-sensor and are characterized by a series of positively charged amino acids at every third position.

CC -1- POLYMORPHISM: The poly-Gln region of CACNA1A is polymorphic: 6 to 17 repeats in the normal population, expanded to about 21 to 30 repeats in spinocerebellar ataxia 6 (SCA6) patients. There seems to be a correlation between the repeat number and earlier onset of the disorder.

CC -1- DISEASE: Defects in CACNA1A are the cause of spinocerebellar ataxia type 6 (SCA6) [MIM:183086]. SCA6 is an autosomal dominant disorder characterized by slowly progressive cerebellar ataxia of the limbs and gait, dysarthria, nystagmus, and mild vibratory and proprioceptive sensory loss. These symptoms are probably explained by severe loss of cerebellar Purkinje cells. SCA6 is caused by expansion of a CAG repeat in the coding region of CACNA1A.

CC -1- DISEASE: Defects in CACNA1A are the cause of familial hemiplegic migraine (FHM) [MIM:141500]; also known as migraine familial hemiplegic 1 (FHM1). FHM, a rare autosomal dominant subtype of migraine with aura, is associated with focal hemiparesis and, in some families, progressive cerebellar atrophy.

CC -1- DISEASE: Defects in CACNA1A are the cause of episodic ataxia type 2 (EA-2) [MIM:108500]; also known as acetazolamide-responsive hereditary paroxysmal cerebellar ataxia (APCA). This autosomal dominant disorder is characterized by acetazolamide-responsive attacks of cerebellar ataxia and migraine-like symptoms, interictal nystagmus, and cerebellar atrophy.

CC -1- SIMILARITY: Belongs to the calcium channel alpha-1 subunits family.

CC -----

CC This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation at the European Bioinformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and that statement is not removed. Usage by and for commercial entities requires a license agreement (See <http://www.isb-sib.ch/announce/> or send an email to license@sib-sib.ch).

CC -----

CC EMBL, AF004884; AAB61613.1; ..

```

DR EMBL: AF004883; AAB61612.1; -.
DR EMBL: X98897; CA68172.1; -.
DR EMBL: Z68114; -. NOT_ANNOTATED_CDS.
DR EMBL: Z68115; -. NOT_ANNOTATED_CDS.
DR EMBL: U79666; AAB64179.1; -.
DR EMBL: U79663; AAB49674.1; ALT_INIT.
DR EMBL: U79664; AAB49675.1; ALT_INIT.
DR EMBL: U79665; AAB49676.1; ALT_INIT.
DR EMBL: U79667; AAB49677.1; ALT_INIT.
DR EMBL: U79668; AAB49678.1; ALT_INIT.
DR EMBL: AAC00505; AAC26839.1; -.
DR EMBL: S76537; AAB35068.1; -.
DR EMBL: U06702; -. NOT_ANNOTATED_CDS.
DR GenBank: HGNC:1388; CACNA1A.
DR MIM: 601011; -.
DR MIM: 183086; -.
DR MIM: 141500; -.
DR MIM: 108500; -.
DR GO: 0007399; P: neurogenesis; TAS.
DR GO: 0007268; P: synaptic transmission; TAS.
DR InterPro: IPR001682; Ca/Na_pore.
DR InterPro: IPR002077; Ca channel_alpha.
DR InterPro: IPR002111; Cat channel_Tppl.
DR InterPro: IPR005821; Ion trans.
DR InterPro: IPR005820; M-channel_nlg.
DR InterPro: IPR005448; P/QVDCALP1a1.
DR Pfam: PF00520; Ion_trans_4.
DR PRINTS: PR00167; CACNA1A.
DR PRINTS: PR01632; P/QVDCALP1a1.
KW Ionic channel; Transmembrane; Ion transport; Voltage-gated channel;
KW Calcium channel; Glycoprotein; Repeat; Multigene family;
KW Calcium-binding; Phosphorylation; Alternative splicing; Polymorphism;
KW Disease mutation; Triplet repeat expansion.
FT REPEAT 85 363
FT REPEAT 473 717
FT REPEAT 1231 1514
FT REPEAT 1551 1814
FT DOMAIN 1 98
FT TRANSMEM 99 117
FT DOMAIN 118 135
FT TRANSMEM 136 155
FT DOMAIN 156 167
FT TRANSMEM 168 185
FT DOMAIN 186 190
FT TRANSMEM 191 209
FT DOMAIN 210 228
FT TRANSMEM 229 248
Query Match 12.1%; Score 73.5; DB 1; Length 2505;
Best Local Similarity 24.2%; Pred. No. 41;
Matches 31; Conservative 9; Mismatches 39; Indels 49; Gaps 4;
QY 12 SRSIGGLTLTEHIAFLCTG-----AATMGNSC----- 44
Db 2247 SRSPESE-----RHHMAHQSSSVSGSPAPSTIGTTPRRGRQLFQCTSTRPHVSY 2201
QY 45 -ICRDSGTDDSVDTQQCAENSAV-----PTADTRSGPRDPVPPRRG 87
Db 2302 PVIRKAGSGPRPQQQQQQQQQQAARFGRATGPRRYPRPTAEPLAGDRPFGCHSSG 2361
QY 88 RGPHEPRR 95
Db 2362 RSPRMERR 2369

```

```

GN MS2.
OS Plasmodium falciparum (isolate chn / Thailand).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporidia; Plasmodium.
OX NCBI_TaxID=70151;
RN [1]
RP SEQUENCE FROM N.A. PubMed=2090943;
RX MEDLINE=91218803; Pubmed=2090943;
RA Thomas A.W., Carr D.A., Carter J.M., Lyon J.A.;
RT "Sequence comparison of allelic forms of the Plasmodium falciparum
  merozoite surface antigen MS2."
RL Mol. Biochem. Parasitol. 43:211-220(1990).
CC - FUNCTION: May play a role in the merozoite attachment to the
  erythrocyte.
CC - SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
  (Potential).
CC - DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
  between the Swiss Institute of Bioinformatics and the EMBL Outstation -
  the European Bioinformatics Institute. There are no restrictions on its
  use by non-profit institutions as long as its content is in no way
  modified and this statement is not removed. Usage by and for commercial
  entities requires a license agreement (see http://www.ebi-sib.ch/announce/
  or send an email to license@ebi-sib.ch).
CC EMBL: M60189; AAA29689.1; -.
DR InterPro: IPR001136; MS2_2.
DR Pfam: PF00985; MS2_2; 1.
KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
KW GPI-anchor; Merozoite.
FT SIGNAL 1 20
FT CHAIN 21 257
FT PROPEP 258 281
FT DOMAIN 44 207
FT DOMAIN 111 118
FT CARBOHYD 22 22
FT CARBOHYD 36 36
FT CARBOHYD 158 158
FT CARBOHYD 230 230
FT CARBOHYD 254 254
FT CARBOHYD 255 255
SQ SEQUENCE 281 AA; 28892 MW; 50598AA42D64C8C64;
Query Match 12.0%; Score 73; DB 1; Length 281;
Best Local Similarity 35.8%; Pred. No. 4;
Matches 24; Conservative 6; Mismatches 25; Indels 12; Gaps 3;
QY 36 AATMGNSGICRDSGTDDSV-----DT-----QQCAENSAVPTADTRSGPRDPVPP 84
Db 152 ANETTONSNVQDSQTSNVPPPTODADTKSPPTAOPQENSA-PTAQTSPELOSAPE 210
QY 85 RRGGRGPH 91
Db 211 NKGTGQH 217

```

```

RESULT 7
ID TGN1_MOUSE STANDARD; PRT; 353 AA.
AC 062313;
DT 15-MAR-2004 (Rel. 43; Last sequence update)
DT 15-MAR-2004 (Rel. 43; Last annotation update)
DE Trans-golgi network integral membrane protein 1 precursor (TGN38A).
GN TGN1 OR TGN1.
OS Mus musculus (Mouse).
OC Eukaryota; Metazoa; Chordata; Vertebrata; Euteleostomi;
OC Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
OX NCBI_TaxID=10090;
RN [1]
RP SEQUENCE FROM N.A.
RC STRAIN=ICR; TISSUE=Brain;

```

RX MEDLINE=95301533; PubMed=7540170;
 RA Kasai K., Takahashi S., Murakami K., Nakayama K.;
 RT "Strain-specific presence of two TGN38 isoforms and absence of TGN41
 in mouse.";
 RL J. Biol. Chem. 270:14471-14476(1995).
 RN [2]
 RP SEQUENCE FROM N.A.
 RC STRAIN=C57BL/6J; Tissue=heart, and Testis;
 RX MEDLINE=22354683; PubMed=12466851;
 RA Okazaki Y., Furuno M., Kasukawa T., Adachi J., Bono H., Kondo S.,
 RA Nikaido I., Otsu N., Saito R., Suzuki H., Yamana H., Kiyosawa H.,
 RA Yagi K., Tomaru Y., Hasegawa Y., Nogami A., Schonbach C., Gogobori T.,
 RA Balderelli R., Hill D.P., Bull C., Hume D.A., Quackenbush J.,
 RA Schmitt L.M., Karapin A., Matsuda H., Batilov S., Beisel K.W.,
 RA Blake J.A., Brad D., Brusic V., Chochia C., Corbani L.E., Cousins S.,
 RA Dalla E., Dragani T.A., Fletcher C.F., Forrest A., Frazee K.S.,
 RA Gassnerand T., Gariboldi M., Gissi C., Godzik A., Gough J.,
 RA Gimond S., Gustincich S., Hirokawa N., Jackson J.J., Jarvis E.D.,
 RA Kanai A., Kawai H., Kawasawa Y., Kedierski R.M., King B.L.,
 RA Kongsava A., Kurochkin I.V., Lee Y., Lenhard B., Lyons P.A.,
 RA Maglott D.R., Malais L., Marchionni L., McKenzie L., Miki H.,
 RA Nagashima T., Numata K., Okido T., Pavan W.J., Pereira G., Pesole G.,
 RA Petrovsky N., Pillai R., Pontius J.U., Qi D., Ramachandran S.,
 RA Ravasi T., Reed U.C., Reed D.J., Reid J., Ring B.Z., Ringwald M.,
 RA Sandelin A., Schneider C., Sempke C.A., Seton M., Shimada K.,
 RA Sultana R., Takenaka Y., Taylor M.S., Teasdale R.D., Tomita M.,
 RA Verardo R., Wagner L., Wahlestedt C., Wang Y., Watanabe Y., Wells C.,
 RA Wilming L.G., Wymshaw-Boris A., Yanagisawa M., Yang L.,
 RA Yuan Z., Zavalan M., Zhu Y., Zimmer A., Carlini P., Hayatsu N.,
 RA Hirokane-Kishikawa T., Kono H., Nakamura M., Sakakura N., Sato K.,
 RA Shiraki T., Waki K., Kawai U., Aizawa K., Arikawa T., Fukuda S.,
 RA Hara A., Hashizume W., Imotani K., Ishii Y., Itoh M., Kagawa I.,
 RA Miyazaki A., Sakai K., Sasaki D., Shibata K., Shiragawa A.,
 RA Yasunishi A., Yoshino M., Waterston R., Lander E.S., Rogers J.,
 RA Birney E., Hayashizaki Y.;
 RT "Analysis of the mouse transcriptome based on functional annotation of
 60,770 full-length cDNAs.";
 RL Nature 420:563-573(2002).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=22388257; PubMed=12477932;
 RA Strausberg R.L., Feingold E.A., Grouse L.H., Derge J.G.,
 RA Klausner R.D., Collins F.S., Wagner L., Shenmen C.M., Schuler G.D.,
 RA Altshuler S.P., Zeeberg B., Buetow K.H., Schaefer C.F., Bhat N.K.,
 RA Hopkins R.F., Jordan K., Moore T., Max S.I., Wang J., Hsieh P.,
 RA Diatchenko L., Marusik K., Farmer A.A., Rubin G.M., Hong L.,
 RA Stapleton M., Soares M.B., Bonaldi M.F., Casavant T.L., Scheetz T.E.,
 RA Brownstein M.J., Tadin T.B., Toshiyuki S., Carninci P., Prange C.,
 RA Raba S.S., Loquellano N.A., Peters G.J., Abramson R.D., Millhys S.J.,
 RA Bosak S.A., McEwan P.J., McKernan K.J., Malek J.A., Gunaratne P.H.,
 RA Richards S., Wolley K.C., Hale S., Garcia A.M., Gay L.J., Hulyk S.W.,
 RA Villalón D.K., Muzny D.M., Sodergren E.J., Lu X., Gibbs R.A.,
 RA Fahney J., Helton E., Kettelman M., Madan A., Rodriguez S., Sanchez A.,
 RA Whiting M., Madan A., Young A.C., Shevchenko V., Bouffard G.G.,
 RA Blakeley R.W., Touchman J.W., Green E.D., Dickson M.C.,
 RA Rodriguez A.C., Grimwood J., Schmutz J., Myers R.M.,
 RA Botteffield Y.S.N., Krzywinski M.I., Skalska U., Smalish D.E.,
 RA Scherch A., Schein J.E., Jones S.J.M., Marra M.A.;
 RT "Generation and initial analysis of more than 15,000 full-length human
 and mouse cDNA sequences.";
 RL Proc. Natl. Acad. Sci. U.S.A. 99:16899-16903(2002).
 RN [4]
 RP FUNCTION: May be involved in regulating membrane traffic to and
 from trans-Golgi network.
 CC SUBCELLULAR LOCATION: Type I membrane protein. Primarily in trans-
 Golgi network. Cycles between the trans-Golgi network and the cell
 surface returning via endosomes (By similarity).
 CC SURFACE SPECIFICITY: Widely expressed.
 CC -1- MISCELLANEOUS: Also found in strains BALB/c, C57BL/6 and DBA/2.
 CC -1- This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation
 at the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way

CC modified and this statement is not removed. Usage by and for commercial
 CC entities requires a license agreement (see <http://www.isb-sib.ch/announce/>
 CC or send an email to license@isb-sib.ch).
 CC -----
 CC EMBL: D50031; BAA08757.1; -
 DR EMBL: AK041302; BAC30896.1; -
 DR EMBL: AK076586; BAC36404.1; -
 DR EMBL: BC009143; AA009143.1; -
 DR PIR: B56940; B56940.
 DR MGI: MGI:105080; T9011.
 KW Signal; Transmembrane; Glycoprotein; Repeat; Golgi stack.
 FT SIGNAL 1 17
 FT CHAIN 18 353
 FT DOMAIN 18 298
 FT TRANSMEM 299 319
 FT DOMAIN 320 353
 FT SITE 346 349
 FT DOMAIN 131 178
 FT REPEAT 131 138
 FT REPEAT 139 146
 FT REPEAT 147 154
 FT REPEAT 155 162
 FT REPEAT 163 170
 FT REPEAT 171 178
 FT CARBOHYD 110 110
 FT CARBOHYD 293 293
 SQ SEQUENCE 353 AA; 37848 MW; 95C340C2FA421B3 CRC64;
 Query Match 12.0%; Score 73; DB 1; Length 353;
 Best Local Similarity 30.5%; Pred. No. 5.1;
 Matches 18; Conservative 9; Mismatches 28; Indels 4; Gaps 1;
 Oy 32 GTGGAATTGMSCTCPDSDTDSVDTQQAENSAVPTDTSQRPDPRPRGRGP 90
 Db 148 GDSKPTFAGSNKATDEDDSKSTKVDKPTSKIS----PDTSTKTDVQPTKQKP 202
 RESULT 8
 CAL3_HUMAN STANDARD; PRT; 1466 AA.
 ID CAL3_HUMAN
 AC P02461; Q15112;
 DT 21-JUL-1986 (Rel. 01, Created)
 DT 01-JAN-1990 (Rel. 13, Last sequence update)
 DT 10-OCT-2003 (Rel. 42, Last annotation update)
 DE Collagen alpha 1(III) chain precursor.
 GN COL3A1
 OS Homo sapiens (Human).
 OC Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 OC Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
 OX NCBI_TaxID=9606;
 RN [1]
 RP SEQUENCE FROM N.A.
 RC Tissue=Skin fibroblast;
 RX MEDLINE=89350838; PubMed=2764886;
 RA Ala-Kokko L., Kontusaari S., Baldwin C.T., Kuivaniemi H.,
 RA Prockop D.J.;
 RT "Structure of cDNA clones coding for the entire propeptide alpha 1(III)
 chain of human type I procollagen. Differences in protein structure
 from type I procollagen and conservation of codon preferences.";
 RL Biochem. J. 260:509-516(1989).
 RN [2]
 RP SEQUENCE OF 149-1225 FROM N.A.
 RX MEDLINE=89386015; PubMed=2780304;
 RA Janeczko R.A., Ramirez F.;
 RT "Nucleotide and amino acid sequences of the entire human alpha 1
 (III) collagen.";
 RL Nucleic Acids Res. 17:6742-6742(1989).
 RN [3]
 RP SEQUENCE OF 168-398.
 RX MEDLINE=77134724; PubMed=557335;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of cyanogen

RT bromide peptides from the amino-terminal segment of type III collagen
 RT of human liver.";
 RL Biochemistry 16:1158-1164(1977).
 RN [4]
 RP REVISIONS.
 RA Seyer J.M.;
 RL Submitted (DEC-1977) to the PIR data bank.
 RN [5]
 RP SEQUENCE OF 399-727.
 RX MEDLINE=79000343; PubMed=687591;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of five
 RT consecutive CNBr peptides from type III collagen of human liver.";
 RL Biochemistry 17:3404-3411(1978).
 RN [6]
 RP SEQUENCE OF 728-964.
 RX MEDLINE=80198282; PubMed=6246925;
 RA Seyer J.M., Mainardi C., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of alpha 1
 RT (III)-CB8 from type III collagen of human liver.";
 RL Biochemistry 19:1583-1589(1980).
 RN [7]
 RP SEQUENCE OF 950-1466 FROM N.A.
 RX MEDLINE=88189837; PubMed=3357782;
 RA Manco B.S., Dalgleish R.;
 RT "Human pro alpha 1(III) collagen: cDNA sequence for the 3' end.";
 RL Nucleic Acids Res. 16:2337-2337(1988).
 RN [8]
 RP REVISION TO 1184.
 RX MEDLINE=89098346; PubMed=3211760;
 RA Molynieux K., Dalgleish R.;
 RT "Human type III collagen 'variant' is a cDNA cloning artefact.";
 RL Nucleic Acids Res. 16:11833-11833(1988).
 RN [9]
 RP SEQUENCE OF 1065-1466 FROM N.A.
 RX MEDLINE=85087944; PubMed=6096827;
 RA Loidl H.R., Brinker J.M., May M., Pfahlejaniet T., Morrow S.,
 RA Rosenbloom J., Myers J.C.;
 RT "Molecular cloning and carboxyl-propeptide analysis of human type III
 RT procollagen.";
 RL Nucleic Acids Res. 12:9383-9394(1984).
 RN [10]
 RP SEQUENCE OF 965-1200.
 RX MEDLINE=81208139; PubMed=7016180;
 RA Seyer J.M., Kang A.H.;
 RT "Covalent structure of collagen: amino acid sequence of alpha
 RT 1(III)-CB9 from type III collagen of human liver.";
 RL Biochemistry 20:2621-2627(1981).
 RN [11]
 RP SEQUENCE OF 1176-1466 FROM N.A.
 RX MEDLINE=88157600; PubMed=2579949;
 RA Chu M.-L., Weil D., de Wet W.J., Bernard M.P., Sippola M., Ramirez F.;
 RT "Isolation of cDNA and genomic clones encoding human pro-alpha 1
 RT (III) collagen. Partial characterization of the 3' end region of the
 RT gene.";
 RL J. Biol. Chem. 260:4357-4363(1985).
 RN [12]
 RP SEQUENCE OF 1161-1200 FROM N.A.
 RX MEDLINE=86187804; PubMed=3754462;
 RA Miskulin M., Dalgleish R., Klueve-Beckerman B., Remnard S.I.,
 RA Tolstoehev P., Brantly M., Crystal R.G.;
 RT "Human type III collagen gene expression is coordinately modulated
 RT with the type I collagen genes during fibroblast growth.";
 RL Biochemistry 25:1408-1413(1986).
 RN [13]
 RP SEQUENCE OF 1-170 FROM N.A.
 RP Tissue-Placenta;
 RX MEDLINE=88303360; PubMed=3405773;
 RA Tomari D., Nica G., de Crombrughe B.;
 RT "Nucleotide sequence of a cDNA coding for the amino-terminal region
 RT of human pro alpha 1(III) collagen.";
 RL Nucleic Acids Res. 16:7201-7201(1988).
 RN [14]
 RP SEQUENCE OF 1-176 FROM N.A.
 RX MEDLINE=89378752; PubMed=2777093;
 RA Benson-Chanda V., Su M.W., Weil D., Chu M.-L., Ramirez F.;
 RT "Cloning and analysis of the 5' portion of the human type-III
 RT procollagen gene (COL3A1).";
 RL Gene 78:255-265(1989).
 RN [15]
 RP REVIEW ON VARIANTS.
 RX MEDLINE=97255959; PubMed=9101290;
 RA Kuivaniemi H., Tromp G., Prockop D.J.;
 RT "Mutations in fibrillar collagens (types I, II, III, and XI), fibril-
 RT associated collagen (type IX), and network-forming collagen (type X)
 RT cause a spectrum of diseases of bone, cartilage, and blood vessels.";
 RL Hum. Mutat. 9:300-315(1997).
 RN [16]
 RP VARIANT AORTIC ANEURYSM ARG-303, AND VARIANT THR-668.
 RX MEDLINE=93293988; PubMed=8514866;
 RA Tromp G., Wu Y., Prockop D.J., Madhathari S.L., Kleinert C.,
 RA Earley J.J., Zhang J., Noerregaard O., Darling R.C., Abbott W.M.,
 RA Cole C.W., Jaakkola P., Rymaszewski M., Pearce W.H., Yao J.S.T.,
 RA Majamaa K., Smulens S.N., Galalica Z., Ferrell R.E., Jimenez S.A.,
 RA Jackson C.E., Michels V.V., Kaye M., Kuivaniemi H.;
 RT "Sequencing of cDNA from 50 unrelated patients reveals that mutations
 RT in the triple-helical domain of type III procollagen are an
 RT infrequent cause of aortic aneurysms.";
 RL J. Clin. Invest. 91:2539-2545(1993).
 RN [17]
 RP VARIANT THR-698.
 RX MEDLINE=91045136; PubMed=2235526;
 RA Zafarullah K., Kleinert C., Tromp G., Kuivaniemi H., Kontusaari S.,
 RA Wu Y., Ganguly A., Prockop D.J.;
 RT "A mutation in the gene for type III procollagen (COL3A1) in a family
 RT with aortic aneurysms.";
 RL J. Clin. Invest. 86:1465-1473(1990).
 RN [18]
 RP VARIANT AORTIC ANEURYSM ARG-786.
 RX MEDLINE=91056145; PubMed=2243125;
 RA Kontusaari S., Tromp G., Kuivaniemi H., Romanic A.M., Prockop D.J.;
 RT "A mutation in the gene for type III procollagen (COL3A1) in a family
 RT with aortic aneurysms.";
 RL J. Clin. Invest. 86:1465-1473(1990).
 RN [19]
 RP VARIANT EDS-IV ARG-828.
 RX MEDLINE=94016385; PubMed=8411057;
 RA Richards A.J., Narcisi P., Lloyd J.C., Ferguson C., Pope F.M.;
 RT "The substitution of glycine 661 by arginine in type III collagen
 RT produces mutant molecules with different thermal stabilities and
 RT causes Ehlers-Danlos syndrome type IV.";
 RL J. Med. Genet. 30:690-693(1993).
 RN [20]
 RP VARIANT EDS-IV SER-957.
 RX MEDLINE=89109135; PubMed=2492273;
 RA Tromp G., Kuivaniemi H., Shikata H., Prockop D.J.;
 RT "A single base mutation that substitutes serine for glycine 790 of
 RT the alpha 1 (III) chain of type III procollagen exposes an arginine
 RT and causes Ehlers-Danlos syndrome IV.";
 RL J. Biol. Chem. 264:1349-1352(1989).
 RN [21]
 RP VARIANT EDS-IV VAL-960.
 RX MEDLINE=95268429; PubMed=7749417;
 RA Tromp G., de Paeppe A., Nuytink L., Madhathari S.L., Kuivaniemi H.;
 RT "Substitution of valine for glycine 793 in type III procollagen in
 RT Ehlers-Danlos syndrome type IV.";
 RL Hum. Mutat. 5:179-181(1995).
 RN [22]
 RP VARIANT EDS-IV GLU-1014.
 RX MEDLINE=92316511; PubMed=1352273;
 RA Richards A.J., Ward P.N., Narcisi P., Nicholas A.C., Lloyd J.C.;
 RA Pope F.M.;
 RT "A single base mutation in the gene for type III collagen (COL3A1)
 RT converts glycine 847 to glutamic acid in a family with Ehlers-Danlos
 RT syndrome type IV. An unaffected family member is mosaic for the
 RT mutation.";
 RL Hum. Genet. 89:414-418(1992).

```

RN [23]
RP VARIANT EDS-IV ASP-1050.
RX MEDLINE=90037070; PubMed=2808425;
RT Tromp G., Kulvanent H., Stolle C.A., Pope F.M., Prockop D.J.;
RT "Single base mutation in the type III procollagen gene that converts
RT the codon for glycine 883 to aspartate in a mild variant of
RT Ehlers-Danlos syndrome IV.";
RL J. Biol. Chem. 264:19313-19317(1989).
RN [24]
RP VARIANT EDS-IV VAL-1077.
RX MEDLINE=91374480; PubMed=1895316;
RT Richards A.J., Lloyd J.C., Ward P.N., de Paeye A., Narcisi P.,
RT Pope F.M.;
RT "Characterisation of a glycine to valine substitution at amino acid
RT position 910 of the triple helical region of type III collagen in a
RT patient with Ehlers-Danlos syndrome type IV.";
RL J. Med. Genet. 28:458-463(1991).
RN [25]
RP VARIANT EDS-IV GLU-1173.
RX MEDLINE=93022543; PubMed=1357232;
RT Johnson P.H., Richards A.J., Pope F.M., Hopkinson D.A.;
RY Query Match 12.0%; Score 73; DB 1; Length 1466;
RY Best Local Similarity 28.8%; Pred. No. 25;
RY Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 77;
OY 16 GCGLLTLEEH---TAHFLGTGCAATTMGNS-----CICRDSGT---DSD 55
OY 8 GSWLLALHPTIIIAQGEAVGGSGHSGSYADRDWKPCCQICVC--DSGSVLCDI 65
OY 56 V-DTQQQAENSAP---TADTSQPRDPVAPRRGSPHPR 94
OY 66 ICDDDELDCPNELPFGBCCAVCPQPFAPAPRP-NGGQPGQPK 108
DB
RESULT 9
MSA2_PLAFC
ID MSA2_PLAFC STANDARD; PRT; 262 AA.
AC Q99317;
DC 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Merzoitte surface antigen 2 precursor (MSA-2) (Allelic form 1).
GN MSA2.
OS Plasmodium falciparum (Isolate Camp / Malaysia).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_TaxID=5835;
RN (1)
RP SEQUENCE FROM N.A.
RX MEDLINE=91218803; PubMed=2090943;
RT Thomas A.W., Carr D.A., Carter J.M., Lyon J.A.;
RT "Sequence comparison of allelic forms of the Plasmodium falciparum
RT merzoitte surface antigen MSA2.";
RL Mol. Biochem. Parasitol. 43:211-220(1990).
RN -1- FUNCTION: May play a role in the merzoitte attachment to the
RN erythrocyte.
RN -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
RN (Potential).
RN -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation
CC at the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce
CC or send an email to license@isb-sib.ch).
CC
CC EMBL: M60186; AAA29687.1; -.
CC InterPro: IPR001116; MSA_2.
CC Pfam: PF00985; MSA_2; 1.
CC Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
CC GPI-anchor; Merzoitte.
KW

```

```

FT SIGNAL 1 20 POTENTIAL.
FT CHAIN 21 238 MEZOZOITE SURFACE ANTIGEN 2.
FT PROPEP 239 262 HYDROPHOBIC, REMOVED DURING MATURATION
                                (BY SIMILARITY).
FT DOMAIN 44 188 POLYMORPHIC REGION.
FT DOMAIN 91 98 POLY-THR.
FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 139 139 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 211 211 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 235 235 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 236 236 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 262 AA; 27374 MW; 72E0B2A31559DD154 CRC64;

Query Match 11.9%; Score 72.5%; DB 1; Length 262;
Best Local Similarity 37.5%; Pred. No. 4.1;
Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TWMSGICRDSGSDSDV-----DT-----QQQQAENSAVPTADRSQRPDRVVRPRRG 87
DB 137 TONNSNV-QQDSQTKSNVPTQADTKSPTRAPQQAENSA-PTBQTESPELOSAPENK 194
QY 88 RGP 91
DB 195 TGGH 198

RESULT 10
MSA2_PLAF7
ID _MSA2_PLAF7 STANDARD; PRT; 272 AA.
AC P50468;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Mezozoite surface antigen 2 precursor (MSA-2) (45 kDa mezozoite
  surface antigen).
GN MSA2.
OS Plasmodium falciparum (isolate Jd7).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporidia; Plasmodium.
OX NCBI_TaxID=36329;
RN (1)
RP SEQUENCE FROM N.A.
RX MEDLINE=90205972; PubMed=2181307;
RA Smythe J.A., Peterson M.G., Coppel R.L., Saul A.J., Kemp D.J.,
  Anders R.F.;
RT "Structural diversity in the 45-kilodalton mezozoite surface antigen
  of Plasmodium falciparum."
RL Mol. Biochem. Parasitol. 39:227-234(1990).
CC -1- FUNCTION: May play a role in the mezozoite attachment to the
  erythrocyte.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
  (Potential).
CC -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
-----
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (see http://www.isb-sib.ch/announce/
  or send an email to license@isb-sib.ch).
CC -----
DR EMBL; M28891; AAA29666.1; -
DR InterPro; IPR00136; MSA_2; 1.
DR Pfam; PF00985; MSA_2; 1.
KM Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
  GPI-anchor; Mezozoite.
FT SIGNAL 1 20 POTENTIAL.
FT CHAIN 21 248 MEZOZOITE SURFACE ANTIGEN 2.
FT PROPEP 249 272 HYDROPHOBIC, REMOVED DURING MATURATION
                                (BY SIMILARITY).
FT DOMAIN 44 198 POLYMORPHIC REGION.
FT DOMAIN 95 108 POLY-THR.

```

Query Match 11.9%; Score 72.5; DB 1; Length 272;
 Best Local Similarity 37.5%; Pred. No. 4.3;
 Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 149 149 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 221 221 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 245 245 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 246 246 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ CARBOHYD 272 AA; 27971 MM; 9D9CG223BFB483D CRG64;

Query Match 11.9%; Score 72.5; DB 1; Length 272;
 Best Local Similarity 37.5%; Pred. No. 4.3;
 Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMGNSCICRDSGTDSDV-----DT-----QOQOQENSAPVPTADRSQPRDPVPRRG 87
 DB 147 TONNSNV-QQDSQKSNVPTQADTSPTRAPQBOAENSA-PTAEQTESPELOGAPENKNG 204

QY 88 RGPB 91
 DB 205 TQGH 208

RESULT 11
 MS2_PLAF6 STANDARD; PRT; 274 AA.
 ID MS2_PLAF6 STANDARD; PRT; 274 AA.
 AC P50497;
 DT 01-OCT-1996 (Rel. 34, Created)
 DT 01-OCT-1996 (Rel. 34, Last sequence update)
 DE 01-OCT-1996 (Rel. 34, Last annotation update)
 DE Merozoite surface antigen 2 precursor (MSA-2).
 GN MS2.
 OS Plasmodium falciparum (isolate Kf1916).
 OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
 OX NCBI_TaxID=57269;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=92178286; PubMed=1542312;
 RA Marshall V.W., Coppel R.L., Anders R.F., Kemp D.J.;
 RT "Two novel alleles within subfamilies of the merozoite surface
 antigen 2 (MSA-2) of Plasmodium falciparum."
 RL Mol. Biochem. Parasitol. 50:181-184(1992).
 CC -1- FUNCTION: May play a role in the merozoite attachment to the
 erythrocyte.
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
 (Potential).
 CC -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).
 CC
 DR EMBL; M73810; AAA29698.1; -;
 DR PIR; A45632; A45632;
 DR InterPro; IPR001136; MSA_2.
 DR Pfam; PF00985; MSA_2; 1.
 KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
 KW GPI-anchor; Merozoite.
 FT SIGNAL 1 20 POTENTIAL.
 FT CHAIN 21 250 MEROZOITE SURFACE ANTIGEN 2.
 FT PROPEP 251 274 MEROPHOBIC, REMOVED DURING MATURATION
 (BY SIMILARITY)
 FT DOMAIN 44 200 POLYMORPHIC REGION.
 FT DOMAIN 97 110 POLY-TR.
 FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 151 151 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 223 223 N-LINKED (GLCNAC. . .) (POTENTIAL).
 FT CARBOHYD 248 248 N-LINKED (GLCNAC. . .) (POTENTIAL).
 SQ SEQUENCE 274 AA; 28367 MM; CEA832D766F43A2 CRG64;

Query Match 11.9%; Score 72.5; DB 1; Length 274;
 Best Local Similarity 37.5%; Pred. No. 4.3;
 Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMGNSCICRDSGTDSDV-----DT-----QOQOQENSAPVPTADRSQPRDPVPRRG 87
 DB 149 TONNSNV-QQDSQKSNVPTQADTSPTRAPQBOAENSA-PTAEQTESPELOGAPENKNG 206

QY 88 RGPB 91
 DB 207 TQGH 210

RESULT 12
 MS2_PLAF6 STANDARD; PRT; 287 AA.
 ID MS2_PLAF6 STANDARD; PRT; 287 AA.
 AC P19260;
 DT 01-NOV-1990 (Rel. 16, Created)
 DT 01-NOV-1990 (Rel. 16, Last sequence update)
 DT 01-OCT-1996 (Rel. 34, Last annotation update)
 DE Merozoite surface antigen 2 precursor (MSA-2) (Allelic form 2)
 DE (Membrane protein p7).
 GN MS2.
 OS Plasmodium falciparum (isolate FCR-3 / Gambia).
 OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
 OX NCBI_TaxID=5838;
 RN [1]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=90349616; PubMed=1696728;
 RA Elliott J.F., Albrecht G.R., Gilladoga A., Handunnetti S.M.,
 RA Neegaye J., Lallinger G., Minjas J.N., Howard R.J.;
 RT "Genes for Plasmodium falciparum surface antigens cloned by
 expression in COS cells."
 RL Proc. Natl. Acad. Sci. U.S.A. 87:6363-6367(1990).
 RN [2]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91117264; PubMed=1990294;
 RA Fenton B., Clark J.T., Khan C.M.A., Robinson J.V., Walliker D.,
 RA Ridley R., Scatte U.G., McBride J.S.;
 RT "Structural and antigenic polymorphism of the 35- to 48-kilodalton
 merozoite surface antigen (MSA-2) of the malaria parasite Plasmodium
 falciparum."
 RL Mol. Cell. Biol. 11:963-971(1991).
 RN [3]
 RP SEQUENCE FROM N.A.
 RX MEDLINE=91218803; PubMed=2090943;
 RA Thomas A.W., Carr D.A., Carter J.M., Lyon J.A.;
 RT "Sequence comparison of allelic forms of the Plasmodium falciparum
 merozoite surface antigen MSA2."
 RL Mol. Biochem. Parasitol. 43:211-220(1990).
 CC -1- FUNCTION: May play a role in the merozoite attachment to the
 erythrocyte.
 CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
 (Potential).
 CC -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
 CC This SWISS-PROT entry is copyright. It is produced through a collaboration
 between the Swiss Institute of Bioinformatics and the EMBL outstation -
 the European Bioinformatics Institute. There are no restrictions on its
 use by non-profit institutions as long as its content is in no way
 modified and this statement is not removed. Usage by and for commercial
 entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
 or send an email to license@isb-sib.ch).
 CC
 DR EMBL; M28890; AAA29650.1; -;
 DR EMBL; X53832; CA337329.1; -;
 DR EMBL; M60188; AAA29688.1; -;
 DR PIR; B39615; B39615.
 DR InterPro; IPR001136; MSA_2.
 DR Pfam; PF00985; MSA_2; 1.
 KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
 KW GPI-anchor; Merozoite.
 FT SIGNAL 1 20 POTENTIAL.

```

FT CHAIN 21 263 MEROZOITE SURFACE ANTIGEN 2.
FT PROPEP 264 287 HYDROPHOBIC, REMOVED DURING MATURATION
FT 264 287 (BY SIMILARITY).
FT DOMAIN 44 213 POLYMORPHIC REGION.
FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 164 164 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 236 236 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 260 260 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 261 261 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 287 AA; 28555 MW; 368590DA917AF8 CRC64;

Query Match
Best Local Similarity 11.9%; Score 72.5; DB 1; Length 287;
Matches 24; Conservative 37.5%; Pred. No. 4.5; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMGNSCICRDSGTDSDV-----DT-----QQQAENSAPVPTADTSQPRDPVPRRG 87
DB 162 TQNNNSNV-QQDSQTSNVPTQDADTKSPTAQPEQAENSA-PTAQTSPPELQSAPEKNG 219
QY 88 RGFH 91
DB 220 TQGH 223

RESULT 13
MSA2_PLAF1 STANDARD; PRT; 300 AA.
ID MSA2_PLAF1
AC Q03644;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 15-DEC-1998 (Rel. 37, Last annotation update)
DE Merozoite surface antigen 2 precursor (MSA-2).
GN MSA2.
OS Plasmodium falciparum (isolate imr143).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_Taxid=57268;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91156685; PubMed=2000383;
RA Smythe J.A., Coppel R.L., Day K.P., Martin R.K., Oduola A.M.J.,
RT "Structural diversity in the Plasmodium falciparum merozoite surface
RT antigen 2.";
RL Proc. Natl. Acad. Sci. U.S.A. 88:1751-1755(1991).
CC -1- FUNCTION: May play a role in the merozoite attachment to the
CC erythrocyte.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
CC (Potential).
CC -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
DR EMBL; M59767; AAA29695.1; -
DR InterPro; IPR001136; MSA_2.
DR Pfam; PF00985; MSA_2; 1.
KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
KW GPI-anchor; Merozoite.
FT SIGNAL 1 20
FT CHAIN 21 276 MEROZOITE SURFACE ANTIGEN 2.
FT PROPEP 277 300 HYDROPHOBIC, REMOVED DURING MATURATION
FT 277 300 (BY SIMILARITY).
FT DOMAIN 44 226 POLYMORPHIC REGION.
FT CARBOHYD 129 136 POLY-THR.
FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 177 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 249 249 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 273 273 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 300 AA; 30101 MW; E416107747AA10D CRC64;

Query Match
11.9%; Score 72.5; DB 1; Length 300;

```

```

FT CARBOHYD 249 249 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 273 273 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 274 274 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 300 AA; 30131 MW; A01E17D36075D7D6 CRC64;

Query Match
Best Local Similarity 11.9%; Score 72.5; DB 1; Length 300;
Matches 24; Conservative 37.5%; Pred. No. 4.8; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMGNSCICRDSGTDSDV-----DT-----QQQAENSAPVPTADTSQPRDPVPRRG 87
DB 175 TQNNNSNV-QQDSQTSNVPTQDADTKSPTAQPEQAENSA-PTAQTSPPELQSAPEKNG 232
QY 88 RGFH 91
DB 233 TQGH 236

RESULT 14
MSA2_PLAF2 STANDARD; PRT; 300 AA.
ID MSA2_PLAF2
AC Q03645;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Merozoite surface antigen 2 precursor (MSA-2).
GN MSA2.
OS Plasmodium falciparum (isolate mad1 / Papua New Guinea).
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
OX NCBI_Taxid=70154;
RN [1]
RP SEQUENCE FROM N.A.
RX MEDLINE=91156685; PubMed=2000383;
RA Smythe J.A., Coppel R.L., Day K.P., Martin R.K., Oduola A.M.J.,
RT "Structural diversity in the Plasmodium falciparum merozoite surface
RT antigen 2.";
RL Proc. Natl. Acad. Sci. U.S.A. 88:1751-1755(1991).
CC -1- FUNCTION: May play a role in the merozoite attachment to the
CC erythrocyte.
CC -1- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
CC (Potential).
CC -1- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC
CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL outstation -
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See http://www.isb-sib.ch/announce/
CC or send an email to license@isb-sib.ch).
CC
DR EMBL; M59768; AAA29696.1; -
DR PIR; A39112; A39112.
DR InterPro; IPR001136; MSA_2.
DR Pfam; PF00985; MSA_2; 1.
KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
KW GPI-anchor; Merozoite.
FT SIGNAL 1 20
FT CHAIN 21 276 MEROZOITE SURFACE ANTIGEN 2.
FT PROPEP 277 300 HYDROPHOBIC, REMOVED DURING MATURATION
FT 277 300 (BY SIMILARITY).
FT DOMAIN 44 226 POLYMORPHIC REGION.
FT CARBOHYD 129 136 POLY-THR.
FT CARBOHYD 22 22 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 36 36 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 177 177 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 249 249 N-LINKED (GLCNAC. . .) (POTENTIAL).
FT CARBOHYD 273 273 N-LINKED (GLCNAC. . .) (POTENTIAL).
SQ SEQUENCE 300 AA; 30101 MW; E416107747AA10D CRC64;

Query Match
11.9%; Score 72.5; DB 1; Length 300;

```

Best Local Similarity 37.5%; Pred. No. 4.8;
Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMNSGICRDSGTDSV-----DT-----QQAENSAPVPTADTSPTAQAENSA-PTAQTESPELOSAFENKG 87
Db 175 TQNNSNV-QQDSQTKSNVPTQADTKSPTAQAENSA-PTAQTESPELOSAFENKG 232

QY 88 RGPB 91
Db 233 TQGH 236

Db 177 TQNNSNV-QQDSQTKSNVPTQADTKSPTAQAENSA-PTAQTESPELOSAFENKG 234
QY 88 RGPB 91
Db 235 TQGH 238
Search completed: April 2, 2004, 09:53:19
Job time : 18 sec

RESULT 15
MSA2_PLAF9 STANDARD; PRT; 302 AA.

ID MSA2_PLAF9
AC 003994;
DT 01-OCT-1996 (Rel. 34, Created)
DT 01-OCT-1996 (Rel. 34, Last sequence update)
DT 01-OCT-1996 (Rel. 34, Last annotation update)
DE Merozoite surface antigen 2 precursor (MSA-2).
GN MSA2.
OS Plasmodium falciparum (isolate tak 9').
OC Eukaryota; Alveolata; Apicomplexa; Haemosporida; Plasmodium.
CX NCBI_TaxId=57276;

RP MEDLINE=9117264; PubMed=190294;
RA Fenton B., Clark J.T., Khan C.M.A., Robinson J.V., Walliker D.,
RA Ridley R., Scaife J.G., McBride J.S.;
RT "Structural and antigenic polymorphism of the 35- to 48-kilodalton
RT merozoite surface antigen (MSA-2) of the malaria parasite Plasmodium
RT falciparum.";
RL Mol. Cell. Biol. 11:963-971(1991).
CC -!- FUNCTION: May play a role in the merozoite attachment to the
CC erythrocyte.
CC -!- SUBCELLULAR LOCATION: Attached to the membrane by a GPI-anchor
CC (Potential).

CC -!- DEVELOPMENTAL STAGE: During the trophozoite and schizont stages.
CC (Potential).

CC This SWISS-PROT entry is copyright. It is produced through a collaboration
CC between the Swiss Institute of Bioinformatics and the EMBL Outstation-
CC the European Bioinformatics Institute. There are no restrictions on its
CC use by non-profit institutions as long as its content is in no way
CC modified and this statement is not removed. Usage by and for commercial
CC entities requires a license agreement (See <http://www.isb-sib.ch/announce/>
CC or send an email to license@isb-sib.ch).

DR EMBL; X53833; CAA37830.1; -.
DR PIR; A39615; A39615.
DR InterPro; IPR00136; MSA_2.
DR Pfam; PF00985; MSA_2; 1.
KW Malaria; Membrane; Glycoprotein; Antigen; Signal; Repeat;
KW GPI-anchor; Merozoite.

FT SIGNAL 1 20
FT CHAIN 21 278
FT PROPEP 279 302
FT DOMAIN 44 228
FT DOBAIN 131 138
FT CARBOHYD 22 22
FT CARBOHYD 36 36
FT CARBOHYD 179 179
FT CARBOHYD 251 251
FT CARBOHYD 275 275
FT CARBOHYD 276 276
SQ SEQUENCE 302 AA; 30259 MW; 4E0A7EB08227CF66 CRC64;

POTENTIAL.
MEROZOITE SURFACE ANTIGEN 2.
HYDROPHOBIC, REMOVED DURING MATURATION
(BY SIMILARITY).
POLYMORPHIC REGION.
POLY-THR.
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).
N-LINKED (GLCNAC. . .) (POTENTIAL).

Query Match 11.9%; Score 72.5; DB 1; Length 302;
Best Local Similarity 37.5%; Pred. No. 4.8; 21; Indels 13; Gaps 4;
Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMNSGICRDSGTDSV-----DT-----QQAENSAPVPTADTSPTAQAENSA-PTAQTESPELOSAFENKG 87
Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM protein - protein search, using SW model

Run on: April 2, 2004, 09:39:06 ; Search time 21 Seconds
(without alignments)
535,924 Million cell updates/sec

Title: US-10-066-500-9

Perfect score: 609
Sequence: 1 MIVFGNAVFLASRLSGGLI.....QNVDELVDLTAVIRLVNDK 117

Scoring table: BLOSUM62
Gapop 10.0, Gapext 0.5

Searched: 283366 seqs, 96191526 residues

Total number of hits satisfying chosen parameters: 283366

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database:

1: PIR.78.*
2: PIR1.*
3: PIR2.*
4: PIR3.*
5: PIR4.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	85.5	14.0	290	T22161	hypothetical prote
2	79.5	13.0	612	T37181	thiamin biosynthes
3	75.5	12.4	900	B87957	protein Y106GD.7
4	75.5	12.4	948	T26417	hypothetical prote
5	75.5	12.3	278	S39310	merozoite surface
6	75.5	12.3	286	B45632	merozoite surface
7	73.5	12.1	91	PL0227	T-cell receptor be
8	73.5	12.0	1466	CGHUTL	collagen alpha 1(I
9	73.5	12.0	2218	B84663	hypothetical prote
10	72.5	11.9	265	T05085	hypothetical prote
11	72.5	11.9	272	G71618	merozoite surface
12	72.5	11.9	274	A45632	merozoite surface
13	72.5	11.9	287	B39615	merozoite 45K surf
14	72.5	11.9	300	A39112	merozoite 45K surf
15	72.5	11.9	302	A39615	merozoite 45K surf
16	72.5	11.9	347	B39112	hypothetical prote
17	72.5	11.9	458	S24457	hypothetical prote
18	72.5	11.8	707	T26218	hypothetical prote
19	72.5	11.8	1787	T20160	hypothetical prote
20	71.5	11.7	390	A47312	NS3A homolog - mur
21	71.5	11.7	310	T41982	hypothetical prote
22	71.5	11.7	22	T41982	transcription regu
23	70.5	11.6	1479	T17401	crithorax protein
24	70.5	11.6	3759	A35085	hypothetical prote
25	70.5	11.5	113	T24164	hypothetical prote
26	69.5	11.4	279	T19828	hypothetical prote
27	69.5	11.4	318	C84651	hypothetical prote
28	69.5	11.3	773	F90537	11poprotein limpor
29	69.5	11.3	261	AB5070	conserved hypother
30	69.5	11.3	281	S26052	hypothetical prote

30	69	11.3	319	2	H98216	hypothetical prote
31	69	11.3	545	2	F84533	mutator-like trans
32	69	11.3	775	2	B72074	hypothetical prote
33	69	11.3	775	2	C81594	hypothetical prote
34	69	11.3	775	2	D86549	hypothetical prote
35	69	11.3	876	2	PC2219	polypeptide - hepa
36	68.5	11.2	361	2	B56940	integral membrane
37	68.5	11.2	788	2	T25061	hypothetical prote
38	68	11.2	85	2	T07076	transcription fact
39	68	11.2	180	2	B45613	surface antigen FU
40	68	11.2	208	2	T46896	merozoite surface
41	68	11.2	272	2	T29446	hypothetical prote
42	68	11.2	351	2	T51513	hypothetical prote
43	68	11.2	445	2	A56043	steroid hormone re
44	68	11.2	482	2	A70963	hypothetical prote
45	68	11.2	504	2	S75134	cell division prot

ALIGNMENTS

RESULT 1

T22161
hypothetical protein F44D12.6 - Caenorhabditis elegans

C/Species: Caenorhabditis elegans

C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999

C/Accession: T22161

R/Col: L.

Submitted to the EMBL Data Library, December 1995
A/Reference number: Z19525

A/Accession: T22161

A/Status: preliminary; translated from GB/EMBL/DBJ

A/Molecule type: DNA

A/Residues: 1-290 <MLP>

A/Cross-references: EMBL:Z68298; PIDN:CAA92602.1; GSPDB:GN00022; CESP:F44D12.6

C/Genetics:

A/Map position: 4

A/Introns: 19/3; 154/2; 198/3

Query Match 14.0% Score 85.5; DB 2; Length 290;
Best Local Similarity 30.0%; Pred. No. 0.47;
Matches 27; Conservative 15; Mismatches 31; Indels 17; Gaps 5;

QY 24 EHHIAHFLGTGAATTGN-SCICRDSGTD-----DSVDTQQAQAEASAVPTADTRQSP 77

DB 154 DAHV-HMRETAGAFIRSDACRSKDDGCDTIDSONSKEDQERSKNSMPLSD----- 207

QY 78 RDVVRPPRRGRGPHBPRRKQNVDELVDLT 107

DB 208 KKPRKPKQ-----ETPRRSKQTPGPMPT 232

RESULT 2

T37181
thiamin biosynthesis protein thic SCQ11.11 [similarity] - Streptomyces coelicolor

C/Species: Streptomyces coelicolor

C/Date: 03-Dec-1999 #sequence_revision 03-Dec-1999 #text_change 04-Feb-2000

C/Accession: T37181

R/Seeger, K.; Harris, D.; James, K.D.; Parkhill, J.; Barrell, B.G.; Rajandream, M.A.

submitted to the EMBL Data Library, July 1999

A/Reference number: Z21598

A/Accession: T37181

A/Status: translated from GB/EMBL/DBJ

A/Molecule type: DNA

A/Residues: 1-612 <SEB>

A/Cross-references: EMBL:AI096823; PIDN:CAB46966.1; GSPDB:GN00070; SCOEDB:SCQ11.11

C/Genetics:

A/Gene: thic; SCOEDB:SCQ11.11

C/Superfamily: thiamin biosynthesis protein thic

```
Query Match      13.0%; Score 79; DB 2; Length 612;
Best Local Similarity 31.2%; Pred. No. 4.6;
Matches 30; Conservative 7; Mismatches 37; Indels 22; Gaps 4;

OY      39  TMGNSICRDSDG--TDDSVDTQOQA-----ENSAPVTAATRSQPRDPVRP-----83
DB      60  TNGQSVTLVTGSPPTDPLVTDVRGLAPLRNWIILAGDTREYAGRPVRPFEDDGIKHT 119

OY      84  -PRGRG-----PHEPRKKQNDGLVLTAVIR 112
DB      120 SPRGRLNMDAVFGRPRQPRGRDGNVDTQIAVAR 155

RESULT 3
B87957 protein Y1066D.7 (imported) - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 10-May-2001 #sequence_revision 10-May-2001 #text_change 10-May-2001
C/Accession: B87957
R/Anonymous: The C. elegans Sequencing Consortium.
Science 282, 2012-2018, 1998
A/Title: Genome sequence of the nematode C. elegans: a platform for investigating biology
A/Reference number: A15000; MIMD:199069613; PMID:9851916
A/Note: see websites genome.wustl.edu/gsc/C_elegans/ and www.sanger.ac.uk/projects/C_eleg
A/Note: published errata appeared in Science 283, 35, 1999; Science 283, 2103, 1999; and
A/Accession: B87957
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-900 <STO>
A/Cross-references: GB:chr_I; PIND:CAA20980.1; PTD:G3880680; GSPDB:GN00019; CESP:Y1066D
C/Genetics:
A/Gene: Y1066D.7
A/Map position: 1

Query Match      12.4%; Score 75.5; DB 2; Length 900;
Best Local Similarity 31.7%; Pred. No. 16;
Matches 20; Conservative 10; Mismatches 18; Indels 15; Gaps 2;

OY      50  GGTDDSVDTQOQAENSAPVTAATRSQPRDPVR-----PFRGRGPHPRKKQ 98
DB      496 SHEDDKKSRSRWEN---TSPIRSPRSPPLRDNDRSRSPRRRRRRRREE 551

OY      99  NVD 101
DB      552 HTD 554

RESULT 4
T26417 hypothetical protein Y1066D.7 - Caenorhabditis elegans
C/Species: Caenorhabditis elegans
C/Date: 15-Oct-1999 #sequence_revision 15-Oct-1999 #text_change 15-Oct-1999
C/Accession: T26417
R/Murray, A.
Submitted to the EMBL Data Library, September 1998
A/Reference number: Z20211
A/Accession: T26417
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 1-948 <NLL>
A/Cross-references: EMBL:A031629; PIND:CAA20980.2; GSPDB:GN00019; CESP:Y1066D.7
C/Experimental source: clone Y1066D
C/Genetics:
A/Gene: CESP:Y1066D.7
A/Map position: 1
A/Intons: 68/3; 160/3; 270/2; 624/2; 706/3; 888/3; 924/3

Query Match      12.4%; Score 75.5; DB 2; Length 948;
Best Local Similarity 31.7%; Pred. No. 16;
Matches 20; Conservative 10; Mismatches 18; Indels 15; Gaps 2;

OY      50  GGTDDSVDTQOQAENSAPVTAATRSQPRDPVR-----PFRGRGPHPRKKQ 98
DB      496 SHEDDKKSRSRWEN---TSPIRSPRSPPLRDNDRSRSPRRRRRRRREE 551
```

```
DB      544 SHEDDKKSRSRWEN---TSPIRSPRSPPLRDNDRSRSPRRRRRRRREE 599
OY      99  NVD 101
DB      600 HTD 602

RESULT 5
S39310 merozoite surface antigen - malaria parasite (Plasmodium falciparum)
C/Species: Plasmodium falciparum
C/Date: 06-Jan-1995 #sequence_revision 06-Jan-1995 #text_change 17-Nov-2000
C/Accession: S39310
R/Ramasamy, R.; Kanasinghe, C.
Submitted to the EMBL Data Library, November 1993
A/Description: Cycle de DNA sequencing of a malaria parasite protein from infected blood
A/Reference number: S39310
A/Accession: S39310
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-278 <RAM>
A/Cross-references: EMBL:X76087; NID:G434996; PTD:G836639
C/Superfamily: Epstein-Barr virus nuclear antigen
C/Keywords: surface antigen

Query Match      12.3%; Score 75; DB 2; Length 278;
Best Local Similarity 34.6%; Pred. No. 5;
Matches 27; Conservative 6; Mismatches 25; Indels 20; Gaps 5;

OY      32  GTGA-----ATTGNSICRDSDGTDSDV-----DT-----QQQAENSAPVTAAT 73
DB      139 GNGGVQKPNQANKETQNNNV-QQDSQTSNVPPQTADTKSPTAQPEQANSA-PTAQ 196

OY      74  RSQPRDPVPRPRGRGPH 91
DB      197 TESPLOSAPENKGTGQH 214

RESULT 6
B45632 merozoite surface antigen 2 - malaria parasite (Plasmodium falciparum)
C/Species: Plasmodium falciparum
C/Date: 22-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 17-Nov-2000
C/Accession: B45632
R/Marshall, V.M.; Coppel, R.L.; Anders, R.F.; Kemp, D.J.
Mol. Biochem. Parasitol. 50, 181-184, 1992
A/Title: Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2)
A/Reference number: A45632; MIMD:92178286; PMID:1542312
A/Accession: B45632
A/Status: preliminary
A/Molecule type: DNA
A/Residues: 1-286 <MAR>
A/Experimental source: isolate 311
A/Note: sequence extracted from NCBI backbone (NCBI:85255, NCBI:P:85259)
C/Superfamily: Epstein-Barr virus nuclear antigen
C/Keywords: surface antigen

Query Match      12.3%; Score 75; DB 2; Length 286;
Best Local Similarity 34.6%; Pred. No. 5.1;
Matches 27; Conservative 6; Mismatches 25; Indels 20; Gaps 5;

OY      32  GTGA-----ATTGNSICRDSDGTDSDV-----DT-----QQQAENSAPVTAAT 73
DB      147 GNGGVQKPNQANKETQNNNV-QQDSQTSNVPPQTADTKSPTAQPEQANSA-PTAQ 204

OY      74  RSQPRDPVPRPRGRGPH 91
DB      205 TESPLOSAPENKGTGQH 222

RESULT 7
P10227 T-cell receptor beta chain V region (V-beta-6.7a, PCR-1) - human (fragment)
C/Accession: P10227
```


C/Species: Homo sapiens (man)
C/Date: 16-Sep-1992 #sequence_rev16-Sep-1992 #text_change 30-May-1997
C/Accession: PLO0227
R/Li, Y.; Szabo, P.; Robinson, M.A.; Dong, B.; Ponnelt, D.N.
U. Exp. Med. 171, 221-230, 1990
A/Title: Allelic variations in the human T cell receptor V-beta-6.7 gene products.
A/Reference number: PLO225; MUID:90111615; PMID:1967299
A/Accession: PLO227
A/Molecule type: mRNA
A/Residues: 1-91 <LTY>
C/Superfamily: immunoglobulin V region; immunoglobulin homology
C/Keywords: T-cell receptor

Query Match 12.1%; Score 73.5; DB 2; Length 91;
Best Local Similarity 34.1%; Pred. No. 2.1;
Matches 30; Conservative 8; Mismatches 21; Indels 29; Gaps 5;

OY 7 AVLPLASRLGCGLLTIEHIAFLGTGGAATMGNSCTCRDSSG-----TDDSV 56
DB 10 ALMYRQSLGQGL-----EFLTYF-----QGSN--APDKSGLSPDRFSAERTGSV 53
OY 57 DT---QQQAENSAVPTADTRSPQRPDPV 81
DB 54 STLTIGRTQGDSDAVYICASMPVPRDPV 81

RESULT 8
CGH07L
collagen alpha 1(III) chain precursor - human
N/Alternate names: procollagen alpha 1(III) chain
C/Species: Homo sapiens (man)
C/Date: 24-Apr-1984 #sequence_revision 01-Sep-1995 #text_change 21-Jul-2000
C/Accession: S05272; S04642; PEO011; S01726; S04887; A90399; A94562; I51868; S59511; A90
R;Prockop, D.J.
submitted to the EMBL Data Library, February 1989
A/Reference number: S05272
A/Accession: S05272
A/Status: preliminary
A/Molecule type: mRNA
A/Residues: 1-1240, 'V', 1242-1466 <PRC>
A/Cross-references: EMBL:X14420; NID:930057; PIDN:CAA32583.1; PID:930058
R;Ala-Kokko, L.; Kontusaari, S.; Baldwin, C.T.; Kuitvanlent, H.; Prockop, D.J.
Biochem. J. 260, 509-516, 1989
A/Title: Structure of cDNA clones coding for the entire prepro-alpha1(III) chain of huma
erences.
A/Reference number: S04642; MUID:89350838; PMID:2764886
A/Accession: S04642
A/Molecule type: mRNA
A/Residues: 1-1196 <ALA>
A/Cross-references: EMBL:X14420; NID:930057; PIDN:CAA32583.1; PID:930058
R;Benson-Chanda, V.; Su, M.W.; Well, D.; Chu, M.L.; Ramirez, F.
Gene 78, 255-265, 1989
A/Title: Cloning and analysis of the 5' portion of the human type-III procollagen gene
A/Reference number: PEO011; MUID:89378752; PMID:2777083
A/Accession: PEO011
A/Molecule type: DNA
A/Residues: 1-176 <BEN>
A/Cross-references: NID:G180813; PIDN:AAA52040.1; PID:G180814
R;Toman, P.D.; Ricca, G.A.; de Crombrughe, B.
Nucleic Acids Res. 16, 7201, 1988
A/Title: Nucleotide sequence of a cDNA coding for the amino-terminal region of human pre
A/Reference number: S01726; MUID:88303360; PMID:3405773
A/Accession: S01726
A/Molecule type: mRNA
A/Residues: 1-170 <TOM>
A/Cross-references: EMBL:X07240; NID:G30060; PIDN:CAA30229.1; PID:G30061
R;Note: the authors translated the codon CAG for residue 154 as His
R;Janeczko, R.A.; Ramirez, F.
Nucleic Acids Res. 17, 6742, 1989
A/Title: Nucleotide and amino acid sequences of the entire human alpha-1 (III) collagen.
A/Reference number: S04887; MUID:89386015; PMID:2780304
A/Accession: S04887

A/Molecule type: mRNA
A/Residues: 149-163, 'G', 164-240, 'D', 242-471, 'D', 473-487, 'L', 489, 'S', 491-613, 'Y', 615-634,
A/Cross-references: EMBL:X15332; NID:929545; PIDN:CAA33387.1; PID:9330045
R;Seyer, J.M.; Kang, A.H.
Biochemistry 16, 1158-1164, 1977
A/Title: Covalent structure of collagen: amino acid sequence of cyanogen bromide peptide
A/Reference number: A90399; MUID:77134724; PMID:557335
A/Accession: A90399
A/Molecule type: protein
A/Residues: 'V', 169-225, 229-232, 'P', 234-292, 'D', 294-398 <SEY1>
A/Experimental source: liver
A/Note: sequence corrected by A94562; attachment of 2-O-alpha-D-glucosyl-O-beta-D-galact
R;Seyer, J.M.
submitted to the Atlas, December 1977
A/Reference number: A94562
A/Accession: A94562
A/Molecule type: protein
A/Residues: 'V', 169-225, 229-277, 'A', 279-292, 'D', 294, 'S', 296-398 <SEY2>
A/Experimental source: liver
A/Note: author submitted corrections to A90399
R;Milewicz, D.M.; Wiltz, A.M.; Smith, A.C.; Manchester, D.K.; Waldstein, G.; Byers, P.H.
Am. J. Hum. Genet. 53, 62-70, 1993
A/Title: Parental somatic and germ-line mosaicism for a multilexon deletion with unusual
fading.
A/Reference number: I51868; MUID:99304430; PMID:8317500
A/Accession: I51868
A/Status: preliminary; translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 186-194 <MIL>
A/Cross-references: GB:S62925; NID:G386425; PIDN:AAD19337.1; PID:G4261637
R;Chiodo, A.A.; Silence, D.O.; Cole, W.G.; Bateman, T.F.
Biochem. J. 311, 939-943, 1995
A/Title: Abnormal type III collagen produced by an exon-17-skipping mutation of the COL3
A/Reference number: S59511; MUID:96067614; PMID:7487954
A/Accession: S59511
A/Molecule type: mRNA
A/Residues: 302-423 <CHI>
A/Cross-references: GB:S79877; NID:G1195576; PIDN:AA835615.1; PID:G1195577
R;Seyer, J.M.; Kang, A.H.
Biochemistry 17, 3404-3411, 1978
A/Title: Covalent structure of collagen: amino acid sequence of five consecutive CNBr pe
A/Reference number: A90414; MUID:79000343; PMID:687591
A/Accession: A90414
A/Molecule type: protein
A/Residues: 399-675, 'N', 677-727 <SEY3>
A/Experimental source: liver
R;Lee, B.; Vitale, E.; Superti-Furga, A.; Steinmann, B.; Ramirez, F.
J. Biol. Chem. 266, 5256-5259, 1991
A/Title: G to T transversion at position +5 of a splice donor site causes skipping of the
A/Reference number: I55349; MUID:91161621; PMID:1672129
A/Accession: I55349
A/Status: translated from GB/EMBL/DBJ
A/Molecule type: DNA
A/Residues: 537-605 <LEE>
A/Cross-references: GB:M5312; NID:G180815; PIDN:AAA52041.1; PID:G180816
R;Seyer, J.M.; Mainardi, C.; Kang, A.H.
Biochemistry 19, 1583-1589, 1980
A/Title: Covalent structure of collagen: amino acid sequence of alpha1 (III)-CB5 from cy
A/Reference number: A90438; MUID:80158282; PMID:6246925
A/Accession: A90438
A/Molecule type: protein
A/Residues: 728-895, 'A', 897-964 <SEY4>
A/Experimental source: liver
R;Cole, W.G.; Chiodo, A.A.; Lamanche, S.R.; Janeczko, R.; Ramirez, F.; Dahl, H.H.M.; Chan,
J. Biol. Chem. 265, 10700-10707, 1990
A/Title: A base substitution at a splice site in the COL3A1 gene causes exon skipping and
A/Reference number: A38303; MUID:91009133; PMID:2145268
A/Accession: A38303
A/Molecule type: mRNA
A/Residues: 861-1015 <COL>
A/Cross-references: GB:U05617; GB:M55603; GB:M59227; NID:G180878; PIDN:AA859383.1; PID:G1
A/Note: a mutant sequence with 942-977 spliced out from a patient with Ehlers-Danlos syndrome

R:Man'ko, B.S.; Dalgleish, R.
Nucleic Acids Res. 16, 2337, 1988
A>Title: Human pro alpha(III) collagen: cDNA sequence for the 3' end.
A:Reference number: S02119; MUID:88189827; PMID:3357782
A:Accession: S02119
A>Status: translation not shown
A:Molecule type: mRNA
A:Residues: 950-1018, 'Y', 1020-1183, 'S', 1185-1466 <MAN>
A:Cross-references: EMBL:X06700; NID:G30053; PIDN:CAA93886.1; PID:G30054
R:Sever, J.M.; Kang, A.H.
Biochemistry 20, 2621-2627, 1981
A>Title: Covalent structure of collagen: amino acid sequence of alpha1 (III)-CB9 from *Ly*
A:Reference number: A90446; MUID:81208139; PMID:7016180
A:Accession: A90446
A:Molecule type: protein
A:Residues: 965-979, 'A', 981-984, 'PS', 987, 'QN', 990-1096, 'P', 1098-1152, 'AT', 1155, 'S', 1157-
A:Experimental source: liver
R:Ioel, H.R.; Brinker, J.M.; May, M.; Pihlajaniemi, T.; Morrow, S.; Rosenbloom, J.; Mye
Nucleic Acids Res. 12, 9383-9394, 1984
A>Title: Molecular cloning and carboxyl-propeptide analysis of human type III procollagen
A:Reference number: A93551; MUID:85087944; PMID:6095827
A:Accession: A93551
A:Molecule type: mRNA
A:Residues: 1065-1155, 'P', 1157-1466 <LOI>
A:Cross-references: EMBL:X01655; EMBL:X01742; NID:429584; PIDN:CAA25821.1
R:McKusick, M.; Dalgleish, R.; Kluge-Beckerman, B.; Remard, S.I.; Tolstoshev, P.; Brant
Biochemistry 25, 1408-1413, 1986
A>Title: Human type III collagen gene expression is coordinately modulated with the type
A:Reference number: 152393; MUID:86187804; PMID:3754462
A:Accession: 152393
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1161-1200 <MIS>
A:Cross-references: GB:M13146; NID:G180415; PIDN:AA52003.1; PID:G180416
R:Renner, B.S.; Cammuzzo, L.A.; Seyer, J.M.; Myers, J.C.
Proc. Natl. Acad. Sci. U.S.A. 82, 3385-3389, 1985
A>Title: Human alpha 1(III) and alpha 2(V) procollagen genes are located on the long arm
A:Reference number: 159025; MUID:85216505; PMID:3858826
A:Accession: 179359
A>Status: translated from GB/EMBL/DBJ
A:Molecule type: mRNA
A:Residues: 1165-1196 <ENA>
A:Cross-references: GB:M11134; NID:G180417; PIDN:AA52004.1; PID:G180418
R:Chu, M.L.; Well, D.; de Wel, W.; Bernard, M.; Sipola, M.; Ramirez, F.
J. Biol. Chem. 260, 4357-4361, 1985
A>Title: Isolation of cDNA and genomic clones encoding human pro-alpha(III) collagen. F
A:Reference number: A92516; MUID:85157600; PMID:2579949
A:Accession: A92516
A:Molecule type: DNA
A:Residues: 1176-1240, 'V', 1242-1356, 'P', 1358-1466 <CHU>
A:Cross-references: GB:M10615; GB:M10793; GB:M10794; GB:M10795; GB:M10796; GB:M10797; GE
A:Experimental source: liver
A:Note: the authors translated the codon TTC for residue 1057 as Tyr; the codons given f
A:Comment: Prolines and lysines at the third position of the tripeptide repeating unit (C
3-hydroxylated. About 15% of the lysines are 5-hydroxylated and some are subsequently C
C:Genetics:
A:Gene: GDB:COL3A1
A:Cross-references: GDB:118729; OMIM:120180
A:Map position: 2q31-2q31
A:Introns: 27/1, 94/3, 111/3, 149/3, 176/3, 554/3, 587/3, 1175/3, 1275/1, 1337/3, 1418/3/3
A:Note: the list of introns is incomplete; defects in this gene can result in Ehlers-Dan
C:Complex: type III collagen is a homotrimer of monomers initially linked by disulfide b
er of their length, is formed with desmosine cross-links made from lysine and allysine
C:Function:
A:Description: structural component of extracellular fibrous polymer that maintains inte
C:Superfamily: collagen alpha 1(I) chain; fibrillar collagen carboxyl-terminal homology
C:Keywords: coiled coil; Ehlers-Danlos syndrome; extracellular matrix; glycoprotein; hy
F:1-23/Domain: signal sequence #status predicted <SIG>
F:24-153/Domain: amino-terminal propeptide #status predicted <PRO>
F:31-91/Domain: von Willebrand factor type C repeat homology <VMC>
F:154-1221/Product: collagen alpha 1(III) chain #status predicted <MAT>
F:154-167/Region: amino-terminal nonhelical noncollagenous telopeptide

F168-1196/Region: helical
 F1091-1093/Region: cell attachment (R-G-D) motif
 F1197-1221/Region: carboxyl-terminal nonhelical telopeptide
 F1222-1466/Domain: fibrillar collagen carboxyl-terminal homology <FCC>
 F1238-1466/Domain: fibrillar collagen carboxyl-terminal homology <FCC>
 F124/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status predicted
 F153-154/Cleavage site: Pro-Gln (procollagen N-endopeptidase) #status predicted
 F154/Modified site: pyrrolidone carboxylic acid (Gln) (in mature form) #status predicted
 F161,1212/Modified site: allysine (Lys) #status predicted
 F163,1264,860,977,1106/Modified site: 5-hydroxylysine (Lys) #status experimental
 F163/Binding site: carboxylate (Lys) (covalent) #status experimental
 F164/Modified site: 5-hydroxylysine (Lys) (partial) #status experimental
 F1948-949/Cleavage site: Gly-Ile (collagenase) #status predicted
 F1106/Binding site: carbohydrate (Lys) (covalent) #status predicted

Query Match 12.0%; Score 73; DB 1; Length 1466;
 Best Local Similarity 28.8%; Pred. No. 47;
 Matches 30; Conservative 10; Mismatches 36; Indels 28; Gaps 7;

Oy 16 GGGHLLTLESH---IAHFLGTGGAATTMGNS-----CICRDSGT--DGS 55
 Db 8 GSWMLLALHPPTIIIAQGAVEGGCSHLGDSYADRDVWKEPCQICVC--DSGVLCDI 65

Oy 56 V-LTQQQAENSAYP---TADTRSPDRVVRPPRRRGCHPR 94
 Db 66 ICDQEHDCNPPEIPFGCCAVCPQPTATRRP-NGQGGQGPX 108

RESULT 9
 884683
 hypothetical protein At2g28300 [imported] - Arabidopsis thaliana
 C1Species: Arabidopsis thaliana (mouse-ear cress)
 C1Date: 02-Feb-2001 #sequence_revision 02-Feb-2001 #text_change 02-Feb-2001
 C1Accession: B84683
 R1Lin: X.; Kaul, S.; Rounsley, S.D.; Shea, T.P.; Benito, M.I.; Town, C.D.; Fujii, C.Y.;
 M.; Koo, H.; Moffat, K.S.; Cronin, L.A.; Shen, M.; Vanhaken, S.E.; Umayam, L.; Tallon, L.;
 Eames, D.; Nierman, W.C.; White, O.; Eisen, J.A.; Salzberg, S.L.; Fraser, C.M.; Venter,
 Nature 402, 761-768, 1999
 A1Title: Sequence and analysis of chromosome 2 of the plant Arabidopsis thaliana.
 A1Reference number: A84420; MUID:20083487; PMID:10617197
 A1Accession: B84683
 A1Status: preliminary
 A1Molecule type: DNA
 A1Residues: 172218 <SNO>
 A1Cross-References: GB:AF020293; NID:94803553; PIDN:AMD29825.1; GSPDB:GN00139
 C1Genetics:
 A1Gene: At2g28300
 A1Map position: 2

Query Match 12.0%; Score 73; DB 2; Length 2218;
 Best Local Similarity 29.9%; Pred. No. 73;
 Matches 29; Conservative 17; Mismatches 19; Indels 32; Gaps 7;

Oy 45 ICRDSDS-----GTTDSV--DTQQQAENSA---VPTADTRS---QPRDPYRP--- 84
 Db 49 LQGTSPDSPOGKGSGSHSLANDTSNIPVENSDDLPTSPATVQPMWEPVPSQHT 108

Oy 85 -----RRGRGHEPRRKQNDGLVDTLAVIRT 113
 Db 109 LKETQPIKRGK--RPRRTDKALTPVSLS--AVSRT 141

RESULT 10
 T05085
 hypothetical protein T6K21.170 - Arabidopsis thaliana
 C1Species: Arabidopsis thaliana (mouse-ear cress)
 C1Date: 23-Apr-1999 #sequence_revision 23-Apr-1999 #text_change 11-Jun-1999
 C1Accession: T05085
 R1Bevan, M.; Rieger, M.; Mueller-Auer, S.; Zipp, M.; Schaefer, M.; Bancroft, I.; Mewes,
 submitted to the Protein Sequence Database, February 1998
 A1Accession number: Z15397
 A1Accession: T05085
 A1Molecule type: DNA

A/Residues: 1-265 <BEV>
 A/Cross-references: EMBL:AL021889
 A/Experimental source: Cultivar Columbia; BAC clone T6K21
 C/Genetics:
 A/Map position: 4
 A/Insertion: 37/3; 59/2; 93/3; 163/1; 192/1
 A/Note: T6K21.170

Query Match 11.9%; Score 72.5; DB 2; Length 265;
 Best Local Similarity 23.5%; Pred. No. 8.4;
 Matches 36; Conservative 24; Mismatches 38; Indels 55; Gaps 9;

QY 2 IVFMAVFLASR--SLGGILLTLEHIAH-----FTG-----TGGA 37
 DB 112 VCIQVYITLVAKDPSAG-GSLVTFQTKVHEDYSKINTLTAVTLARKSPDPDEIGGAK 170

QY 38 TTMGNS-----CICRDSGTDSDVDTQQQAENSAPVPTADRSQPRDPV-----RPPRG 87
 DB 171 TGLSSSLIGTCHPCCKSVSKSVETEN-----VKQPNRLKRNAPVFTIRRYIPNKG 224

QY 88 RGP-----HEPRKKONVDGLVLTAVIRTLVD 116
 DB 225 RAPKGNHKKPR-----DRALIKRTMD 247

RESULT 11
 G71618
 merozoite surface antigen MSP-2 PFB0300C - malaria parasite (Plasmodium falciparum)
 C/Species: Plasmodium falciparum
 C/Date: 13-Nov-1998 #sequence_revision 13-Nov-1998 #text_change 17-Nov-2000

A/Accession: G71618; A44950
 R/Gardner, M.J.; Telcelin, H.; Carnucci, D.J.; Cummings, L.M.; Aravind, L.; Koonin, E.V.;
 ; Pertea, M.; Salzbberg, S.; Zhou, L.; Sutton, G.G.; Clayton, R.; White, O.; Smith, H.O.
 Science 282, 1126-1132, 1998
 A/Title: Chromosome 2 sequence of the human malaria parasite Plasmodium falciparum.
 A/Reference number: A71600; MUID:99021743; PMID:9804551
 A/Accession: G71618
 A/Status: preliminary; nucleic acid sequence not shown; translation not shown
 A/Molecule type: DNA

A/Residues: 1-272 <GAR>
 A/Cross-references: GB:A501385; GB:A501362; NID:G3845143; PIDN:AAC71849.1; PID:G384514
 A/Experimental source: clone 3D7
 R/Smythe, J.A.; Peterson, M.G.; Coppel, R.L.; Saul, A.J.; Kemp, D.J.; Anders, R.F.
 Mol. Biochem. Parasitol. 39, 227-234, 1990
 A/Title: Structural diversity in the 45-kilodalton merozoite surface antigen of Plasmodi
 A/Reference number: A44950; MUID:90205972; PMID:2181307

A/Accession: A44950
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-54; 'T', '56-272 <SMY>
 A/Cross-references: GB:M28891; NID:G160458; PID:G160459
 C/Genetics:
 A/Gene: PFB0300C
 C/Superfamily: Epstein-Barr virus nuclear antigen
 C/Keywords: surface antigen

Query Match 11.9%; Score 72.5; DB 2; Length 272;
 Best Local Similarity 37.5%; Pred. No. 8.6;
 Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TWMNSCICRDSGTDSDV-----DT-----QQQAENSAPVPTADRSQPRDPVPRRG 87
 DB 147 TONNSNV-QQDSQTSKSNVPTQADPTKSPVAPQEAENSA-PTAEQTESPELOQAPENKG 204

QY 88 RGP 91
 DB 205 TQGH 208

RESULT 12
 A45632
 merozoite surface antigen 2 - malaria parasite (Plasmodium falciparum)
 C/Species: Plasmodium falciparum

C/Date: 22-Apr-1993 #sequence_revision 18-Nov-1994 #text_change 17-Nov-2000
 C/Accession: A45632
 R/Marshall, V.M.; Coppel, R.L.; Anders, R.F.; Kemp, D.J.
 Mol. Biochem. Parasitol. 50, 181-184, 1992

A/Title: Two novel alleles within subfamilies of the merozoite surface antigen 2 (MSA-2)
 A/Reference number: A45632; MUID:92178286; PMID:1542312

A/Contents: KF1916
 A/Accession: A45632
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-274 <MAR>
 A/Cross-references: GB:M73810; NID:G160484; PID:G160485
 A/Note: Sequence extracted from NCBI backbone (NCBI:85252, NCBI:85257)
 C/Superfamily: Epstein-Barr virus nuclear antigen
 C/Keywords: surface antigen

Query Match 11.9%; Score 72.5; DB 2; Length 274;
 Best Local Similarity 37.5%; Pred. No. 8.7;
 Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TWMNSCICRDSGTDSDV-----DT-----QQQAENSAPVPTADRSQPRDPVPRRG 87
 DB 149 TONNSNV-QQDSQTSKSNVPTQADPTKSPVAPQEAENSA-PTAEQTESPELOQAPENKG 206

QY 88 RGP 91
 DB 207 TQGH 210

RESULT 13
 B39615
 merozoite 45K surface antigen precursor - malaria parasite (Plasmodium falciparum)
 N/Alternate names: membrane antigen p7

C/Species: Plasmodium falciparum
 C/Date: 13-Sep-1991 #sequence_revision 13-Sep-1991 #text_change 01-Dec-2000
 C/Accession: B39615; A56018; A44950; A45613
 R/Fenton, B.; Clark, J.T.; Khan, C.M.A.; Robinson, J.V.; Walliker, D.; Ridley, R.; Scalf
 Mol. Cell. Biol. 11, 963-971, 1991
 A/Title: Structural and antigenic polymorphism of the 35- to 48-kilodalton merozoite sur
 A/Reference number: A39615; MUID:91117264; PMID:1990294

A/Accession: B39615
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-287 <FEN>
 A/Cross-references: EMBL:X53833
 R/Elloit, J.F.; Albrecht, G.R.; Gilladoga, A.; Handunnetti, S.M.; Neequaye, J.; Lallin
 Proc. Natl. Acad. Sci. U.S.A. 87, 6363-6367, 1990
 A/Title: Genes for Plasmodium falciparum surface antigens cloned by expression in COS ce
 A/Reference number: A36018; MUID:90349616; PMID:1696728

A/Accession: A36018
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-287 <ELL>
 A/Cross-references: GB:M28890; NID:G160406; PID:G160407
 R/Smythe, J.A.; Peterson, M.G.; Coppel, R.L.; Saul, A.J.; Kemp, D.J.; Anders, R.F.
 Mol. Biochem. Parasitol. 39, 227-234, 1990
 A/Title: Structural diversity in the 45-kilodalton merozoite surface antigen of Plasmodi
 A/Reference number: A44950; MUID:90205972; PMID:2181307

A/Accession: B44950
 A/Status: preliminary
 A/Molecule type: DNA
 A/Residues: 1-186; 'R', '188-287 <SMY>
 A/Cross-references: GB:M28892; NID:G160488; PID:G160489
 R/Fandeur, T.; Bonnefoy, S.; Mercereau-Pujalon, O.
 Mol. Biochem. Parasitol. 47, 167-178, 1991
 A/Title: In vivo and in vitro derived Palo Alto lines of Plasmodium falciparum are genet
 A/Reference number: A45613; MUID:92049549; PMID:1944415

A/Accession: A45613
 A/Status: preliminary; not compared with conceptual translation
 A/Molecule type: nucleic acid
 A/Residues: 28; 'E', '30-186; 'R', '188-230; 'IH' <PAN>
 A/Experimental source: Uganda Palo Alto strain, merozoite

A>Note: sequence extracted from NCBI backbone (NCBIP:65035)
C:Superfamily: Epstein-Barr virus nuclear antigen
C:Keywords: membrane protein; surface antigen

Query Match

11.9%; Score 72.5; DB 2; Length 287;

Best Local Similarity 37.5%; Pred.No.9.1; 21; Indels 13; Gaps 4;
Matches 24; Conservative 6; Mismatches 21

QY 39 TMGNSCICRDSGTDSDV-----DT-----QQQQAENSAVPTADTRSGPRDPVPPRRG 87

Db 162 TQNNNSV-QQDSQTKSNVPTQDADTKSPTAQPEQAENSA-PTAQTESPELQSAPEKNG 219

QY 88 RGP 91

Db 220 TGOH 223

RESULT 14

A39112
merozoite 45K surface antigen precursor - malaria parasite (Plasmodium falciparum) (isol

C:Species: Plasmodium falciparum
C:Date: 30-Aug-1991 #sequence_revision 30-Aug-1991 #text_change 17-Nov-2000

C:Accession: A39112
R:Smayda, J.A.; Coppel, R.L.; Day, K.P.; Martin, R.K.; Oduola, A.M.J.; Kemp, D.J.; Ander

Proc Natl. Acad. Sci. U.S.A. 88, 1751-1755, 1991
A:Title: Structural diversity in the Plasmodium falciparum merozoite surface antigen 2.

A:Reference number: A39112; NUID:91156685; PMID:2000383

A:Accession: A39112

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-300 <SMV>

A:Cross-references: GB:M59765

C:Superfamily: Epstein-Barr virus nuclear antigen

C:Keywords: surface antigen

QY 39 TMGNSCICRDSGTDSDV-----DT-----QQQQAENSAVPTADTRSGPRDPVPPRRG 87

Db 175 TQNNNSV-QQDSQTKSNVPTQDADTKSPTAQPEQAENSA-PTAQTESPELQSAPEKNG 232

QY 88 RGP 91

Db 233 TGOH 236

RESULT 15

A39615
merozoite 45K surface antigen precursor (clone T9-96) - malaria parasite (Plasmodium fal

C:Species: Plasmodium falciparum
C:Date: 13-Sep-1991 #sequence_revision 13-Sep-1991 #text_change 17-Nov-2000

C:Accession: A39615; S13802
R:Penon, B.; Clark, J.T.; Khan, C.M.A.; Robinson, J.V.; Walliker, D.; Ridley, R.; Scaif

Wol. Cell. Biol. 11, 963-971, 1991
A:Title: Structural and antigenic polymorphism of the 35- to 48-kilodalton merozoite sur

A:Reference number: A39615; NUID:9117264; PMID:1990294

A:Accession: A39615

A:Status: preliminary

A:Molecule type: DNA

A:Residues: 1-302 <FEN>

A:Cross-references: EMBL:X53632

C:Superfamily: Epstein-Barr virus nuclear antigen

C:Keywords: surface antigen

Query Match 11.9%; Score 72.5; DB 2; Length 302;

Best Local Similarity 37.5%; Pred.No.9.6;
Matches 24; Conservative 6; Mismatches 21; Indels 13; Gaps 4;

QY 39 TMGNSCICRDSGTDSDV-----DT-----QQQQAENSAVPTADTRSGPRDPVPPRRG 87

Db 177 TQNNNSV-QQDSQTKSNVPTQDADTKSPTAQPEQAENSA-PTAQTESPELQSAPEKNG 234

QY 88 RGP 91
Db 235 TGOH 238

Search completed: April 2, 2004, 09:54:46
Job time: 23 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM protein - protein search, using sw model

Run on: April 2, 2004, 09:30:36 ; Search time 54 Seconds
(without alignments)
612.186 Million cell updates/sec

Title: US-10-066-500-9
Perfect score: 609
Sequence: 1 MIVFGMAVFLASRLSGGIL.....QNVGSLVDTLAVIRTLVDK 117

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 1586107 seqs, 282547505 residues
Total number of hits satisfying chosen parameters: 1586107

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database :
1: geneseqp294n04:*
2: geneseqp19808:*
3: geneseqp19908:*
4: geneseqp20008:*
5: geneseqp20018:*
6: geneseqp20028:*
7: geneseqp20038:*
8: geneseqp20048:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	609	100.0	117	4 AAB31180	AAB31180 Amino aci
2	609	100.0	117	6 ABO25151	ABO25151 Novel hum
3	609	100.0	117	6 ABU67269	ABU67269 Novel hum
4	609	100.0	117	6 ABU72037	ABU72037 Novel hum
5	609	100.0	117	6 ABU67138	ABU67138 Novel hum
6	609	100.0	117	6 ABU79780	ABU79780 Human sec
7	609	100.0	117	6 ABO33583	ABO33583 Novel hum
8	609	100.0	117	6 ABO447181	ABO447181 Human sec
9	609	100.0	117	6 ABO44436	ABO44436 Novel hum
10	609	100.0	117	7 ABO33460	ABO33460 Novel hum
11	609	100.0	117	7 ABO19838	ABO19838 Human sec
12	609	100.0	117	7 ABO17875	ABO17875 Human PRO
13	609	100.0	117	7 ADD17875	ADD17875 Human sec
14	609	100.0	117	7 ADD11255	ADD11255 Human sec
15	609	100.0	117	7 ADD170521	ADD170521 Human sec
16	609	100.0	117	7 ADD39598	ADD39598 Human sec
17	609	100.0	117	7 ADD70044	ADD70044 Human sec
18	609	100.0	117	7 ADD37048	ADD37048 Human sec
19	609	100.0	117	7 ADD38165	ADD38165 Human sec
20	609	100.0	117	7 ADD38121	ADD38121 Human sec
21	609	100.0	117	7 ADD38644	ADD38644 Human sec
22	609	100.0	117	7 ADD40075	ADD40075 Human sec
23	609	100.0	117	7 ADE50296	ADE50296 Human sec
24	609	100.0	117	7 ADE19908	ADE19908 Human sec
25	609	100.0	117	7 ADE49819	ADE49819 Human sec

ALIGNMENTS

26	609	100.0	117	7 ADE21377	ADe21377 Human sec
27	609	100.0	117	8 ADE41256	ADe41256 Human sec
28	609	100.0	117	8 ADE41104	ADe41104 Human sec
29	609	100.0	118	4 AAY9341	Aay9341 Human PRO
30	609	100.0	118	4 AAB66090	Aab66090 Protein o
31	609	100.0	118	5 ABB84819	Abb84819 Human PRO
32	609	100.0	118	5 ABB95425	Abb95425 Human ang
33	604	99.2	289	4 AAM25871	Aam25871 Human pro
34	604	99.2	427	3 AAY25761	Aay25761 Human sec
35	604	99.2	427	3 AAB32412	Aab32412 Human sec
36	604	99.2	436	3 AAB32411	Aab32411 Human sec
37	604	99.2	576	3 AAB32384	Aab32384 Human sec
38	604	99.2	576	4 AAB94297	Abp94297 Human pro
39	604	99.2	576	5 ABB64699	Abp64699 Human pro
40	85	14.0	961	6 ABU21450	Abu21450 Protein e
41	79.5	13.1	5002	4 ABB63723	Abb63723 Drosophi1
42	78	12.8	1527	2 AAW81172	Aaw81172 Human BAZ
43	78	12.8	1531	2 AAW81173	Aaw81173 Human BAZ
44	77	12.6	2618	4 ABG02135	Abg02135 Novel hum
45	77	12.6	2622	4 ABG06418	Abg06418 Novel hum

RESULT 1

AAB31180 standard; protein: 117 AA.

AAB31180;

20-APR-2001 (first entry)

Amino acid sequence of human polypeptide PRO444.

Human, secreted protein; transmembrane protein; PRO196; PRO444; PRO183; PRO185; PRO210; PRO215; PRO217; PRO242; PRO288; PRO365; PRO1308; PRO1183; PRO1272; PRO1419; PRO1499; PRO170; PRO248; PRO353; PRO1158; PRO1600; PRO9940; PRO533; PRO301; PRO187; PRO337; PRO1411; PRO4356; PRO246; PRO265; PRO941; PRO10096; PRO6003; PRO6004; PRO350; PRO2630; PRO3309; cell death; genetic disorder; transgenic animal; gene therapy.

Homo sapiens.

Location/Qualifiers

Key Peptide

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

Modified-site

PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99WO-US028565.
PR 07-DEC-1999; 99US-0169495P.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004342.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 20-MAR-2000; 2000WO-US007377.
PR 30-MAR-2000; 2000WO-US008439.
PR 15-MAY-2000; 2000WO-US013358.
PR 17-MAY-2000; 2000WO-US013705.
XX
XX (GENTH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers J, Eaton DL;
PI Ferrara N, Fong S, Gao W, Gerber H, Gertsen ME, Goddard A;
PI Godowski PJ, Gunney AL, Kijavir IJ, Mather JP, Napier MA, Pan J;
PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
PI Wood WI, Zhang Z;
XX WPI; 2001-050091/06.
DR N-PSDB; AAC86965.
XX
XX Isolated nucleic acid molecule encoding a PRO polypeptide which is a
PT transmembrane polypeptide is useful for gene therapy and identification
PI of related polypeptides.
XX
XX Claim 12; Fig 4; 244pp; English.
XX
XX The present sequence represents a human secreted and transmembrane
CC polypeptide. The specification describes human polypeptides, designated
CC PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO288,
CC PRO365, PRO367, PRO368, PRO1183, PRO1272, PRO1419, PRO4999, PRO1170,
CC PRO348, PRO351, PRO318, PRO1600, PRO3940, PRO333, PRO301, PRO187,
CC PRO248, PRO337, PRO335, PRO246, PRO265, PRO941, PRO10096, PRO6003,
CC PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
CC can be modulated with agents that bind to these polypeptides, resulting
CC in the death of the cells. The polynucleotides encoding these
CC polypeptides are useful in the recombinant production of the
CC polypeptides, as a hybridisation probe to screen libraries to isolate
CC homologous sequences, or to map the gene. They may also be used for
CC analysing genetic disorders, and to produce transgenic animals which are
CC useful for the development and screening of therapeutically useful
CC reagents. The polynucleotides can also be used in gene therapy e.g. to
CC replace a defective gene
XX
XX Sequence 117 AA;
SQ
Query Match 100.0%; Score 609; DB 4; Length 117;
Best Local Similarity 100.0%; Pred. No. 2e-63;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MIVFGAVFLASRSIQGLLTLEHIAFLGTGATMGNSGCRDSDGTDSDVDPQ 60
Db 1 MIVFGAVFLASRSIQGLLTLEHIAFLGTGATMGNSGCRDSDGTDSDVDPQ 60
QY 61 QQAENSATVADTRSGPRDPVPRPRGRGPHPRRKKQNDGLVDTLAVIRTLVDK 117
Db 61 QQAENSATVADTRSGPRDPVPRPRGRGPHPRRKKQNDGLVDTLAVIRTLVDK 117
Db 61 QQAENSATVADTRSGPRDPVPRPRGRGPHPRRKKQNDGLVDTLAVIRTLVDK 117
RESULT 2
ABO25151
ID ABO25151 standard; protein; 117 AA.
XX
XX ABO25151;
AC
XX
DT 05-SEP-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO444.
DE
XX

KW Human; secreted and transmembrane protein; PRO; antidiabetic;
KW ophthalmological; cytostatic; immunostimulant; gene therapy;
KW vascular endothelial growth factor inhibitor; hypertrophy of adult heart;
KW protein secretion disorder; pancreas disorder; diabetes;
KW vascular permeability; retinal neuron cell survival; retinal disorder;
KW immune response; inflammation; mononuclear cell infiltration;
KW eosinophil infiltration; apoptosis; neoplastic growth.
XX
XX Homo sapiens.
PN US2003040014-A1.
XX
XX 27-FEB-2003.
XX
PF 01-FEB-2002; 2002US-00066269.
XX
XX 26-AUG-1997; 97US-0056974P.
PR 17-SEP-1997; 97US-0059115P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059588P.
PR 17-OCT-1997; 97US-0062285P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063082P.
PR 27-OCT-1997; 97US-0063129P.
PR 29-OCT-1997; 97US-0063733P.
PR 21-NOV-1997; 97US-0066364P.
PR 25-NOV-1997; 97US-0066840P.
PR 16-DEC-1997; 97US-0069694P.
PR 09-FEB-1998; 98US-0074086P.
PR 02-FEB-1998; 98US-0074992P.
PR 25-MAR-1998; 98US-0079294P.
PR 08-APR-1998; 98US-0081049P.
PR 14-JUL-1998; 98WO-US014552.
PR 10-AUG-1998; 98US-0095989P.
PR 18-AUG-1998; 98US-0097000P.
PR 09-SEP-1998; 98US-0099601P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98US-0099811P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98WO-US018824.
PR 14-SEP-1998; 98WO-US019093.
PR 16-SEP-1998; 98WO-US019310.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98WO-US019437.
PR 24-SEP-1998; 98US-0101922P.
PR 28-OCT-1998; 98US-0106032P.
PR 20-NOV-1998; 98US-0109304P.
PR 25-NOV-1998; 98WO-US024855.
PR 20-NOV-1998; 98WO-US025190.
PR 01-DEC-1998; 98WO-US025108.
PR 08-MAR-1999; 99WO-US005028.
PR 23-MAR-1999; 99US-0125778P.
PR 02-JUN-1999; 99WO-US012252.
PR 15-JUN-1999; 99US-0139695P.
PR 20-JUL-1999; 99US-0145070P.
PR 26-JUL-1999; 99US-0145688P.
PR 17-AUG-1999; 99US-0149396P.
PR 01-SEP-1999; 99WO-US020111.
PR 08-SEP-1999; 99WO-US020594.
PR 15-SEP-1999; 99WO-US021090.
PR 15-SEP-1999; 99WO-US021547.
PR 30-NOV-1999; 99WO-US028313.
PR 01-DEC-1999; 99WO-US028301.
PR 02-DEC-1999; 99US-0028865.
PR 07-DEC-1999; 99US-0169495P.
PR 20-DEC-1999; 99WO-US030999.
PR 05-JAN-2000; 2000WO-US000219.
PR 18-FEB-2000; 2000WO-US004341.
PR 18-FEB-2000; 2000WO-US004342.
PR 22-FEB-2000; 2000WO-US004414.
PR 01-MAR-2000; 2000WO-US005601.
PR 02-MAR-2000; 2000WO-US005841.
PR 09-MAR-2000; 2000WO-US006471.

PR 20-MAR-2000; 2000MO-US007377.
PR 30-MAR-2000; 2000MO-US008439.
PR 15-MAY-2000; 2000MO-US013358.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014841.
PR 02-JUN-2000; 2000MO-US015264.
PR 11-AUG-2000; 2000MO-US022031.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 30-MAY-2001; 2001MO-US017443.
PR 01-JUN-2001; 2001MO-US017800.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
PR 15-NOV-2001; 2001US-00002796.
XX
PA (GETH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL,
PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen MB, Goddard A,
PI Godowski PJ, Gurney AL, Kijavini IJ, Macher JP, Napier MA, Pan J,
PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
PI Wood WI, Zhang Z;
XX WPI; 2003-503396/47.
DR N-PSDB; ACD42316.
XX
XX New secreted and transmembrane PRO polypeptides, useful for treating
PT diabetes, retinal disorders and stimulating an immune response.
XX
PS Claim 12; Fig 4; 254pp; English.
XX
CC The invention describes an isolated polypeptide (I) having at least 80 %
CC amino acid sequence identity to 30 secreted and transmembrane
CC polypeptides. PRO polypeptides are also useful for stimulating
CC hypertrophy of adult heart, for inhibiting vascular endothelial growth
CC factor stimulated proliferation of endothelial cells, stimulating
CC proliferation of stimulated T-lymphocytes and for inducing proliferation
CC of PD12 pancreatic ductal cells and are thus useful in the treatment of
CC disorders which involve protein secretion by the pancreas, including
CC diabetes. PRO polypeptides are useful for inducing vascular permeability
CC and in enhancing survival of retinal neurons cells and are thus useful
CC for the treatment of retinal disorders. PRO polypeptides are also useful
CC for stimulating an immune response and inducing inflammation by inducing
CC mononuclear cell and eosinophil infiltration at the site of infection of
CC an animal. The PRO polypeptides are further useful for inducing apoptosis
CC in endothelial cells for inhibiting neoplastic growth. This is the amino
CC acid sequence of a novel human secreted and transmembrane PRO polypeptide
XX
SO Sequence 117 AA;
Query March 100.0%; Score 609; DB 6; Length 117;
Best Local Similarity 100.0%; Pired. No. 2e-63;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MIVGMAVFLASRLSGGLTLLEHIAHFLGTGAATTGNSGICRDSGTDSDVDTQ 60
DB 1 MIVGMAVFLASRLSGGLTLLEHIAHFLGTGAATTGNSGICRDSGTDSDVDTQ 60
QY 61 QQAENSATFTADTSSQPRDPYRPRRGGRGPRPKKQNDGLVLTDLTAIRTLVK 117
DB 61 QQAENSATFTADTSSQPRDPYRPRRGGRGPRPKKQNDGLVLTDLTAIRTLVK 117
RESULT 3
ID AB067269 standard; protein; 117 AA.
XX AC AB067269;
XX

DT 28-MAY-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO444.
XX
XX Secreted and transmembrane polypeptide; PRO polypeptide; PRO533; PRO301;
KW PRO187; PRO337; PRO411; PRO1096; PRO246; PRO6307; PRO6003; PRO6004;
KW PRO335; PRO2630; PRO265; PRO941; FGFR; bioactive molecule;
KW fibroblast growth factor receptor; cell death; chromosome mapping;
KW gene mapping; transgenic animal; knockout animal; gene therapy; tumour;
KW obesity; diabetes; insulinemia; vascular permeability;
KW cardiac insufficiency disorder; immune response; hearing loss;
KW auditory hair cell regeneration; bone disorder; cartilage disorder;
XX sports injury; arthritis.
XX
OS Homo sapiens.
XX
XX US2003032063-A1.
XX
XX
PD 13-FEB-2003.
XX
PP 01-FEB-2002; 2002US-00066494.
XX
XX 26-AUG-1997; 97US-0056974P.
XX 17-SEP-1997; 97US-0059115P.
XX 18-SEP-1997; 97US-0058263P.
XX 19-SEP-1997; 97US-0059588P.
XX 17-OCT-1997; 97US-0062285P.
XX 24-OCT-1997; 97US-0062816P.
XX 24-OCT-1997; 97US-0063082P.
XX 27-OCT-1997; 97US-0063329P.
XX 29-OCT-1997; 97US-0063733P.
XX 21-NOV-1997; 97US-0066364P.
XX 25-NOV-1997; 97US-0066840P.
XX 16-DEC-1997; 97US-0066949P.
XX 09-FEB-1998; 98US-0074066P.
XX 09-FEB-1998; 98US-0074092P.
XX 25-MAR-1998; 98US-0079294P.
XX 08-APR-1998; 98US-0081049P.
XX 10-AUG-1998; 98US-0095998P.
XX 18-AUG-1998; 98US-0097000P.
XX 09-SEP-1998; 98US-0099603P.
XX 10-SEP-1998; 98US-0099803P.
XX 10-SEP-1998; 98US-0099811P.
XX 10-SEP-1998; 98US-0099812P.
XX 14-SEP-1998; 98US-0099812P.
XX 16-SEP-1998; 98US-0099812P.
XX 17-SEP-1998; 98US-0100858P.
XX 17-SEP-1998; 98US-0101943P.
XX 24-SEP-1998; 98US-0101922P.
XX 28-OCT-1998; 98US-0106032P.
XX 20-NOV-1998; 98US-0109304P.
XX 20-NOV-1998; 98US-0109304P.
XX 25-NOV-1998; 98US-0109304P.
XX 01-DEC-1998; 98US-0109304P.
XX 08-MAR-1999; 98US-0109304P.
XX 23-MAR-1999; 98US-0125788P.
XX 02-JUN-1999; 98US-0125788P.
XX 15-JUN-1999; 98US-0136935P.
XX 20-JUL-1999; 98US-0145070P.
XX 26-JUL-1999; 98US-0145070P.
XX 17-AUG-1999; 98US-0149396P.
XX 01-SEP-1999; 98US-0200211P.
XX 08-SEP-1999; 98US-0200211P.
XX 15-SEP-1999; 98US-0200211P.
XX 15-SEP-1999; 98US-0200211P.
XX 30-NOV-1999; 98US-0208313P.
XX 01-DEC-1999; 98US-0208313P.
XX 02-DEC-1999; 98US-0208313P.
XX 07-DEC-1999; 98US-0208313P.
XX 20-DEC-1999; 98US-0208313P.
XX 05-JAN-2000; 2000MO-US000219.
XX 18-FEB-2000; 2000MO-US004341.
XX 18-FEB-2000; 2000MO-US004342.

22-FEB-2000; 2000MO-US004414.
 01-MAR-2000; 2000MO-US005601.
 02-MAR-2000; 2000MO-US005841.
 09-MAR-2000; 2000MO-US006471.
 20-MAR-2000; 2000MO-US007377.
 30-MAR-2000; 2000MO-US008439.
 15-MAY-2000; 2000MO-US013358.
 17-MAY-2000; 2000MO-US013705.
 22-MAY-2000; 2000MO-US014042.
 30-MAY-2000; 2000MO-US014941.
 02-JUN-2000; 2000MO-US015264.
 11-AUG-2000; 2000MO-US022031.
 23-AUG-2000; 2000MO-US023522.
 24-AUG-2000; 2000MO-US023328.
 01-DEC-2000; 2000MO-US032678.
 28-FEB-2001; 2001MO-US006520.
 30-MAY-2001; 2001MO-US017443.
 01-JUN-2001; 2001MO-US017800.
 20-JUN-2001; 2001MO-US019692.
 29-JUN-2001; 2001MO-US021066.
 09-JUL-2001; 2001MO-US021735.
 15-NOV-2001; 2001US-00002736.

(GENTH) GENENTECH INC.

Ashkenazi A¹, Baker KP, Botstein DA, Desnovers L, Eaton DL,
 Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 Godowski PJ, Gunney AL, Kijavich IJ, Mather JP, Napier MA, Pan J,
 Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
 Wood NF, Zhang Z,
 WPI: 2003-341964/32.
 N-PSDB; ACG04925.

Thirty seven nucleic acids encoding novel secreted and transmembrane PRO
 polypeptides, useful for modulating biological activity of cell
 expressing the polypeptide, and in chromosome and gene mapping.

Claim 12; Fig 4; 25SEP; English.

The invention describes an isolated, secreted and transmembrane
 polypeptide (I), termed PRO polypeptide. (I) is useful for detecting
 PRO33, PRO301, PRO187, PRO137, PRO1411, PRO10096, PRO246, PRO6307,
 PRO6003, PRO6004, PRO4356, PRO2630, PRO265, PRO941, fibroblast growth
 factor receptor (FGFR)-4, FGFR-3, FGFR-2 or FGFR-1 polypeptide, and for
 linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
 cell expressing the polypeptide. The bioactive molecule causes cell
 death. (II) is useful as hybridisation probes, in chromosome and gene
 mapping, in generation of antisense RNA and DNA, in the preparation of
 PRO polypeptide, for generating transgenic animals or knockout animals
 which in turn are useful in the development and screening of
 therapeutically useful reagents, and for the genetic analysis of
 individuals with genetic disorders, in gene therapy, and for chromosome
 identification. (I) Or Ab is useful for the preparation of medicament for
 treating conditions which are responsive to the PRO polypeptide or anti-
 PRO antibody e.g. a tumour. (I) is useful for treating obesity, diabetes
 or hypo- or hyper-insulinaemia, and cardiac insufficiency disorders, for
 inhibiting tumour growth, enhances vascular permeability and immune
 response, for inducing regeneration of auditory hair cells and for
 treating hearing loss in mammals, and for treating bone and/or cartilage
 disorders such as sports injuries and arthritis. This is the amino acid
 sequence of a novel human secreted and transmembrane polypeptide
 associated oligonucleotide

Sequence 117 AA;

Query Match 100.0%; Score 609; DB 6; Length 117;
 Best Local Similarity 100.0%; P-Id: No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0

1 MIVPGNVAIVLARSISGGGLLTLEHIAHFLGGAATMGNSCIRDDSGTDDSVDTQ 60
 1 MIVPGNVAIVLARSISGGGLLTLEHIAHFLGGAATMGNSCIRDDSGTDDSVDTQ 60

Qy	61	QOENSAVPAFLATRSQPRPVPRGRGPHPRKKONVGLVDTLAVIRLIVDK	117
Db	61	QOENSAVPAFLATRSQPRPVPRGRGPHPRKKONVGLVDTLAVIRLIVDK	117
RESULT_4			
ID	ABU72037		
XX	ABU72037	standard; protein; 117 AA.	
XX	11-JUN-2003	(first entry).	
XX			
DE	Novel human secreted and transmembrane protein PRO444.		
XX			
KW	Human; secreted and transmembrane polypeptide; PRO;		
KW	fibroblast growth factor receptor; PRO533; PRO301; PRO187; PRO337;		
KW	PRO1411; PRO10096; PRO224; PRO6307; PRO6003; FGFR-3; FGFR-4; FGFR-1;		
KM	FGFR-2; PRO6004; PRO456; PRO2830; PRO265; PRO951; bioactive molecule;		
KM	toxin; radiolabel; antibody; cell death; chromosome mapping;		
KM	gene mapping; transgenic animal; knockout animal; gene therapy;		
XX	tissue typing.		
OS	Homo sapiens.		
XX			
PN	US2002177165-A1.		
XX			
PD	28-NOV-2002.		
XX			
PF	01-FEB-2002; 2002US-00066500.		
XX			
PR	26-AUG-1997; 97US-0056374P.		
PR	17-SEP-1997; 97US-0059115P.		
PR	18-SEP-1997; 97US-0059263P.		
PR	19-SEP-1997; 97US-0059588P.		
PR	17-OCT-1997; 97US-0062285P.		
PR	24-OCT-1997; 97US-0062816P.		
PR	24-OCT-1997; 97US-0063329P.		
PR	27-OCT-1997; 97US-0063733P.		
PR	29-OCT-1997; 97US-0066364P.		
PR	21-NOV-1997; 97US-0066840P.		
PR	25-NOV-1997; 97US-0066840P.		
PR	16-DEC-1997; 97US-0066840P.		
PR	09-FEB-1998; 98US-0074086P.		
PR	09-FEB-1998; 98US-0074092P.		
PR	09-FEB-1998; 98US-0079294P.		
PR	25-MAR-1998; 98US-0081049P.		
PR	08-APR-1998; 98US-00814552.		
PR	14-JUL-1998; 98US-0095988P.		
PR	10-AUG-1998; 98US-0097000P.		
PR	18-AUG-1998; 98US-0099601P.		
PR	09-SEP-1998; 98US-0099803P.		
PR	10-SEP-1998; 98US-0099812P.		
PR	10-SEP-1998; 98US-0099812P.		
PR	10-SEP-1998; 98US-0099812P.		
PR	14-SEP-1998; 98US-0099812P.		
PR	16-SEP-1998; 98US-0099812P.		
PR	17-SEP-1998; 98US-0099812P.		
PR	17-SEP-1998; 98US-0099812P.		
PR	24-SEP-1998; 98US-0106304P.		
PR	28-OCT-1998; 98US-0106304P.		
PR	20-NOV-1998; 98US-0109302P.		
PR	20-NOV-1998; 98US-0109302P.		
PR	25-NOV-1998; 98US-0109302P.		
PR	01-DEC-1998; 98US-0109302P.		
PR	08-MAR-1999; 99US-0125778P.		
PR	23-MAR-1999; 99US-0125778P.		
PR	02-JUN-1999; 99US-0125778P.		
PR	15-JUN-1999; 99US-0139695P.		
PR	20-JUL-1999; 99US-0145070P.		
PR	26-JUL-1999; 99US-0145698P.		
PR	17-AUG-1999; 99US-0149396P.		

PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028565.
 PR 07-DEC-1999; 99US-0169495P.
 PR 20-DEC-1999; 99WO-US030939.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 09-MAR-2000; 2000WO-US006471.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032878.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 30-MAY-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 15-NOV-2001; 2001US-00002796.
 ER
 XX (GETH) GENENTECH INC.
 PA
 XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gao W, Gerber H, Gertlisen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Kijavlin IJ, Mather JP, Napier MA, Pan J,
 PI Paoni NF, Roy MA, Stewart TH, Tumas D, Watanabe CK, Williams PM,
 PI Wood WL, Zhang Z;
 DR WPI; 2003-328482/31.
 DR N-PSDB; ACA60455.
 XX

PT Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, for identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers.
 XX
 PS Claim 12; Fig 4; 254P; English.
 CC The invention describes an isolated, secreted and transmembrane
 CC polypeptide (PP), termed PRO PP or fibroblast growth factor receptor PP
 CC (1), (i) is useful for detecting PRO33, PRO301, PRO187, PRO337, PRO411,
 CC PRO10096, PRO246, PRO6307, PRO6003, fibroblast growth factor receptor
 CC (FGFR)-3, FGFR-4, FGFR-1, FGFR-2, PRO6004, PRO4356, PRO630, PRO285 or
 CC PRO951 polypeptide, and for linking a bioactive molecule to a cell
 CC expressing the above polypeptides. The bioactive molecule, a toxin,
 CC radiolabel or an antibody, causes cell death. PRO is useful in assays to
 CC identify other proteins or molecules involved in binding interaction. The
 CC polynucleotide (II) encoding (I) is useful in chromosome and gene
 CC mapping, in generation of antisense RNA and DNA, for generating
 CC transgenic animals or knockout animals which in turn are useful in the
 CC development and screening of therapeutically useful reagents, to
 CC construct hybridisation probes for mapping the gene which encodes the PRO
 CC and for the genetic analysis of individuals with genetic disorders, in
 CC gene therapy, for chromosome identification and as a chromosome marker.
 CC (I) and (II) are useful for tissue typing. This is the amino acid
 CC sequence of a novel human secreted and transmembrane PRO polypeptide
 XX
 SQ Sequence 117 AA;

Query Match 100.0%; Score 609; DB 6; Length 117;
 Best Local Similarity 100.0%; Pred. No. 26-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 OY 1 MIVEGMAYFLASRLIGQILLTLEHIAHFLGTGGAATTMGNSCICRDSGTDSDVDTQQ 60
 DB 1 MIVEGMAYFLASRLIGQILLTLEHIAHFLGTGGAATTMGNSCICRDSGTDSDVDTQQ 60
 OY 61 QQAENSAPFTADTSQPPDPVPPRRGRGPRPRKQNDGVLDTLAVIRTLVDK 117
 DB 61 QQAENSAPFTADTSQPPDPVPPRRGRGPRPRKQNDGVLDTLAVIRTLVDK 117
 RESULT 5
 ABU67138
 ID ABU67138 standard; protein, 117 AA.
 AC ABU67138;
 XX
 DT 28-MAY-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO444.
 XX
 KW Secreted and transmembrane polypeptide; PRO polypeptide; PRO301;
 KW PRO187; PRO337; PRO411; PRO10096; PRO246; PRO6307; PRO6003; PRO6004;
 KW PRO4356; PRO2630; PRO265; PRO941; FGFR; bioactive molecule;
 KW fibroblast growth factor receptor; cell death; chromosome mapping;
 KW gene mapping; transgenic animal; knockout animal; gene therapy; tumour;
 KW obesity; diabetes; insulinemia; vascular permeability;
 KW cardiac insufficiency disorder; immune response; hearing loss;
 KW auditory hair cell regeneration; bone disorder; cartilage disorder;
 KW sports injury; arthritis.
 XX
 OS Homo sapiens.
 XX
 PN US2003032062-A1.
 XX
 PD 13-FEB-2003.
 XX
 PF 01-FEB-2002; 2002US-00066273.
 XX
 XX 26-AUG-1997; 97US-0056974P.
 XX 17-SEP-1997; 97US-0059115P.
 XX 18-SEP-1997; 97US-0058263P.
 XX 19-SEP-1997; 97US-0059588P.
 XX 17-OCT-1997; 97US-0062858P.
 XX 24-OCT-1997; 97US-0062816P.
 XX 24-OCT-1997; 97US-0063082P.
 XX 27-OCT-1997; 97US-0063329P.
 XX 29-OCT-1997; 97US-0063733P.
 XX 21-NOV-1997; 97US-0063648P.
 XX 25-NOV-1997; 97US-0066840P.
 XX 16-DEC-1997; 97US-0069694P.
 XX 09-FEB-1998; 98US-0074086P.
 XX 09-FEB-1998; 98US-0074092P.
 XX 25-MAR-1998; 98US-0075294P.
 XX 08-APR-1998; 98US-0081049P.
 XX 14-JUL-1998; 98WO-US014552.
 XX 10-AUG-1998; 98US-0095958P.
 XX 18-AUG-1998; 98US-0097000P.
 XX 09-SEP-1998; 98US-0099601P.
 XX 10-SEP-1998; 98US-0099803P.
 XX 10-SEP-1998; 98US-0099811P.
 XX 10-SEP-1998; 98US-0099812P.
 XX 10-SEP-1998; 98WO-US018882.
 XX 14-SEP-1998; 98WO-US019093.
 XX 16-SEP-1998; 98WO-US019330.
 XX 17-SEP-1998; 98US-0100858P.
 XX 17-SEP-1998; 98WO-US019437.
 XX 24-SEP-1998; 98US-0101922P.
 XX 28-OCT-1998; 98US-0106032P.
 XX 20-NOV-1998; 98US-0109304P.
 XX 20-NOV-1998; 98WO-US024855.

PR 25-NOV-1998; 98WO-US025190.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-MAR-1999; 98WO-US005078.
 PR 23-MAR-1999; 99US-0125787B.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-JUN-1999; 99US-0139695P.
 PR 20-JUL-1999; 99US-0145070P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 17-AUG-1999; 99US-0148396P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028301.
 PR 02-DEC-1999; 99WO-US028565.
 PR 07-DEC-1999; 99US-0169495P.
 PR 20-DEC-1999; 99WO-US030999.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 09-MAR-2000; 2000WO-US006471.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 30-MAY-2001; 2001WO-US017444.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 15-NOV-2001; 2001US-00002796.
 XX
 PA (GENTH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A;
 PI Godowski PJ, Gurney AL, Kijavini IJ, Mather JP, Napier MA, Pan J;
 PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX
 DR WFI, 2003-341963/32.
 DR N-PSDB; ACA04445.
 XX
 PT New secreted and transmembrane polypeptide for modulating biological
 PT activity of a cell expressing the polypeptide, identifying agonists or
 PT antagonists of the polypeptide, and as molecular weight markers.
 XX
 PS Claim 12; Fig 4; 254pp; English.
 XX
 CC The invention describes an isolated, secreted and transmembrane
 CC polypeptide (I), termed PRO polypeptide. (I) is useful for detecting
 CC PRO533, PRO301, PRO187, PRO337, PRO1411, PRO10096, PRO246, PRO6307,
 CC PRO6003, PRO6004, PRO3356, PRO2630, PRO265, PRO941, fibroblast growth
 CC factor receptor (FGFR-4, FGFR-3, FGFR-2 or FGFR-1 polypeptide, and for
 CC linking a bioactive molecule e.g. toxin, radiolabel or antibody, to a
 CC cell expressing the polypeptide. The bioactive molecule causes cell
 CC death. (II) is useful as hybridisation probe, in chromosome and gene
 CC mapping, in generation of antisense RNA and DNA, in the preparation of
 CC PRO polypeptide, for generating transgenic animals or knockout animals
 CC which in turn are useful in the development and screening of
 CC therapeutically useful reagents, and for the genetic analysis of

CC individuals with genetic disorders, in gene therapy, and for chromosome
 CC identification. (I) Or Ab is useful for the preparation of medicament for
 CC treating conditions which are responsive to the PRO polypeptide or anti-
 CC PRO antibody e.g. a tumour. (I) is useful for treating obesity, diabetes
 CC or hypo- or hyper-insulinaemia, and cardiac insufficiency disorders, for
 CC inhibiting tumour growth, enhances vascular permeability and immune
 CC response, for inducing regeneration of auditory hair cells and for
 CC treating hearing loss in mammals, and for treating bone and/or cartilage
 CC disorders such as sports injuries and arthritis. This is the amino acid
 CC sequence of a novel human secreted and transmembrane polypeptide
 XX
 SQ Sequence 117 AA;
 Query Match 100.0%; Score 609; DB 6; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MIVFGNAVFLASRLSGGLTLLEHIAHFLTGGAATMGNSCTCRDSDGTFDSDVDTQ 60
 DB 1 MIVFGNAVFLASRLSGGLTLLEHIAHFLTGGAATMGNSCTCRDSDGTFDSDVDTQ 60
 QY 61 QCAENSAVPTADTRSGPRDPVAPPRRGPHPRKKQNVQGLVLTAVIRTLVYDK 117
 DB 61 QCAENSAVPTADTRSGPRDPVAPPRRGPHPRKKQNVQGLVLTAVIRTLVYDK 117
 RESULT 6
 ABUT9780 ID ABUT9780 standard; protein; 117 AA.
 XX
 AC ABUT9780;
 XX
 DT 19-JUN-2003 (first entry)
 XX
 DE Human secreted/transmembrane protein PRO444.
 XX
 KW Human secreted protein; transmembrane protein; PRO; genetic disorder;
 KM gene therapy.
 XX
 OS Homo sapiens.
 XX
 PN US2003032057-A1.
 XX
 PD 13-FEB-2003.
 XX
 PF 15-NOV-2001; 2001US-00002796.
 XX
 XX 26-AUG-1997; 97US-0056974P.
 XX 17-SEP-1997; 97US-0059115P.
 XX 18-SEP-1997; 97US-0059263P.
 XX 19-SEP-1997; 97US-0059588P.
 XX 17-OCT-1997; 97US-0062285P.
 XX 24-OCT-1997; 97US-0062816P.
 XX 24-OCT-1997; 97US-0063082P.
 XX 27-OCT-1997; 97US-0063299P.
 XX 29-OCT-1997; 97US-0063733P.
 XX 21-NOV-1997; 97US-0066364P.
 XX 25-NOV-1997; 97US-0066840P.
 XX 16-DEC-1997; 97US-0069694P.
 XX 09-FEB-1998; 98US-0074086P.
 XX 09-FEB-1998; 98US-0074092P.
 XX 25-MAR-1998; 98US-0079294P.
 XX 08-APR-1998; 98US-0081049P.
 XX 14-JUL-1998; 98WO-US014552.
 XX 10-AUG-1998; 98US-0095998P.
 XX 18-AUG-1998; 98US-0097000P.
 XX 09-SEP-1998; 98US-0099601P.
 XX 10-SEP-1998; 98US-0099803P.
 XX 10-SEP-1998; 98US-0099811P.
 XX 10-SEP-1998; 98US-0099812P.
 XX 10-SEP-1998; 98WO-US018824.
 XX 14-SEP-1998; 98WO-US019093.
 XX 16-SEP-1998; 98WO-US019330.

PR 17-SEP-1998; 98US-0100858P.
 PR 17-SEP-1998; 98MO-US019437.
 PR 24-SEP-1998; 98US-0101922P.
 PR 28-OCT-1998; 98US-0106032P.
 PR 20-NOV-1998; 98US-0109304P.
 PR 20-NOV-1998; 98MO-US02485S.
 PR 25-NOV-1998; 98MO-US025190.
 PR 01-DEC-1998; 98MO-US025108.
 PR 08-MAR-1999; 99US-0125778P.
 PR 23-MAR-1999; 99US-0125778P.
 PR 02-JUN-1999; 99MO-US012252.
 PR 15-JUN-1999; 99US-0139695P.
 PR 20-JUL-1999; 99US-0145070P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 17-AUG-1999; 99US-0149396P.
 PR 01-SEP-1999; 99MO-US020111.
 PR 08-SEP-1999; 99MO-US020594.
 PR 15-SEP-1999; 99MO-US021090.
 PR 15-SEP-1999; 99MO-US021547.
 PR 30-NOV-1999; 99MO-US028313.
 PR 01-DEC-1999; 99MO-US028301.
 PR 02-DEC-1999; 99MO-US028565.
 PR 07-DEC-1999; 99US-0169495P.
 PR 20-DEC-1999; 99MO-US030999.
 PR 05-JAN-2000; 2000MO-US000219.
 PR 18-FEB-2000; 2000MO-US004341.
 PR 18-FEB-2000; 2000MO-US004342.
 PR 22-FEB-2000; 2000MO-US004414.
 PR 01-MAR-2000; 2000MO-US005601.
 PR 02-MAR-2000; 2000MO-US005841.
 PR 09-MAR-2000; 2000MO-US006471.
 PR 20-MAR-2000; 2000MO-US007377.
 PR 30-MAR-2000; 2000MO-US008439.
 PR 15-MAY-2000; 2000MO-US013358.
 PR 17-MAY-2000; 2000MO-US013705.
 PR 22-MAY-2000; 2000MO-US014042.
 PR 30-MAY-2000; 2000MO-US014941.
 PR 02-JUN-2000; 2000MO-US015264.
 PR 11-AUG-2000; 2000MO-US022031.
 PR 23-AUG-2000; 2000MO-US023522.
 PR 24-AUG-2000; 2000MO-US023328.
 PR 01-DEC-2000; 2000MO-US032678.
 PR 28-FEB-2001; 2001MO-US006520.
 PR 30-MAY-2001; 2001MO-US017443.
 PR 01-JUN-2001; 2001MO-US017800.
 PR 20-JUN-2001; 2001MO-US019682.
 PR 29-JUN-2001; 2001MO-US021066.
 PR 09-JUL-2001; 2001MO-US021735.
 PR XX
 PA (GETH) GENENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL,
 PI Ferreira N, Fong S, Gao W, Garber H, Gerritsen ME, Goddard A,
 PI Goddard PJ, Gurney AL, Kijavrin IU, Mather JP, Mendler MA, Pan J,
 PI Paoloni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
 PI Wood WT, Zhang Z;
 PI XX
 DR WPI; 2003-341960/32.
 DR N-PSDB; ACA65586.
 PT Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers.
 PS Claim 12; Fig 4; 255PP; English.
 CC The invention relates to an isolated, secreted/transmembrane polypeptide,
 CC termed PRO polypeptide, having at least 80% sequence identity to a
 CC sequence selected from any one of the 37 sequences appearing as AB079779
 CC -AB079815 or to a sequence encoded by a nucleic acid molecule deposited
 CC under any one of the ATCC numbers given in the specification. Also
 CC included are an isolated nucleic acid molecule having at least 80%
 CC sequence identity to a sequence selected from any one of the 37 cDNA

CC sequences defined in the specification (or encoding the mature PRO
 CC protein or a PRO protein extracellular domain), a PRO expression vector,
 CC a host cell comprising the vector, PRO fusion proteins, anti-PRO
 CC antibodies and a method for linking a bioactive molecule to a cell
 CC expressing the above PRO polypeptides, the bioactive molecule is a toxin,
 CC radiolabel or an antibody and causes the death of the cell. PRO or the
 CC antibody is useful for modulating at least one biological activity of
 CC cell expressing the above polypeptides. PRO is useful for identifying
 CC agonists or antagonists of PRO, for preparing a variant of PRO, as
 CC molecular weight markers for protein electrophoresis purpose and PRO
 CC nucleic acid is useful for recombinantly expressing those markers. PRO is
 CC also useful as therapeutic agent. PRO is useful in assays to identify
 CC other proteins or molecules involved in binding interaction. PRO nucleic
 CC acid is useful as hybridisation probes, in chromosome and gene mapping,
 CC in generation of antisense RNA and DNA, in the preparation of PRO
 CC polypeptide, in gene therapy, for generating transgenic animals or
 CC knockout animals which in turn are useful in the development and
 CC screening of therapeutically useful reagents, to construct hybridisation
 CC probes for mapping the gene which encodes the PRO and for the genetic
 CC analysis of individuals with genetic disorders, for chromosome
 CC identification, as a chromosome marker, and for generating probes for
 CC polymerase chain reaction (PCR), Northern analysis, Southern analysis and
 CC Western analysis. The antibody is useful in diagnostic assays for PRO,
 CC e.g. detecting its expression in specific cells, tissues or serum, for
 CC affinity purification of PRO from recombinant cell culture or natural
 CC sources. PRO or Ab is useful for the preparation of medicament for
 CC treating conditions which is responsive to the PRO polypeptide or anti-
 CC PRO antibody. PRO and PRO nucleic acid are useful for tissue typing. The
 CC present sequence encodes a PRO polypeptide
 CC XX
 SQ Sequence 117 AA;
 Query Match 100.0%; Score 609; DB 6; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIVFGWAVFLASRSIGQGLLTLEHIAHFLCTGAAATTMGNSCTCRDSDSGTDSVDVTQQ 60
 DB 1 MIVFGWAVFLASRSIGQGLLTLEHIAHFLCTGAAATTMGNSCTCRDSDSGTDSVDVTQQ 60
 QY 61 QQAENSVAVPTADTRSGPRDPVAPRRGRGPHPRKKNVCDLVADTAVIRTVLVDK 117
 DB 61 QQAENSVAVPTADTRSGPRDPVAPRRGRGPHPRKKNVCDLVADTAVIRTVLVDK 117

RESULT 7
 AB033583 standard; protein; 117 AA.
 ID AB033583
 XX
 AC AB033583;
 XX

DT 17-SEP-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO444.
 XX

KW Human; secreted and transmembrane protein; PRO; angiogenesis;
 KW endothelial cell proliferation; wound healing; immune response;
 KW T-lymphocytes proliferation; neonatal heart hypertrophy; tumor;
 KW cardiac insufficiency disorder; calcium flux; inflammation;
 KW vascular endothelial growth factor-stimulated proliferation;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW nephropathy; Schanlein-Henoch purpura; celiac disease; Crohn's disease;
 KW dermatitis herpetiformis; diabetes; haemoglobin switch; insulinemia;
 KW pancreatic beta-cell precursor cell differentiation; thalassemias;
 KW obesity; auditory hair cell regeneration; hearing loss; bone disorder;
 KW cartilage disorder; sports injury; arthritis.
 KW XX

OS Homo sapiens.
 XX
 XX US2003073130-A1.
 PN
 XX
 XX 17-APR-2003.
 PD
 XX

PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 08-NOV-2000; 2000MO-US030952.
PR 10-NOV-2000; 2000MO-US030873.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-MAR-2001; 2001MO-US006666.
PR 01-JUN-2001; 2001MO-US017800.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
PR 04-SEP-2001; 2001US-00946374.
XX
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S,
PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
PI Williams PM, Wood WT;
XX WPI; 2003-585293/55.
XX N-PSDB; ACDE8242.
XX
XX Novel isolated PRO polypeptides e.g. PRO1130, PRO1275, PRO1418, PRO1555,
PT PRO1787 that modulate glucose or free fatty acid uptake by skeletal
PT muscle cells, and are useful for treating diabetes, hyper- or hypo-

Query Match 100.0%; Score 609; DB 6; Length 117;
Best Local Similarity 100.0%; Pred. No. 2e-63; Indels 0; Gaps 0;
Matches 117; Conservative 0; Mismatches 0;

QY 1 MIVFGNAVFLASRISGGILLTLEHIAHPIGTGAATTGNSGICRDSGTFDSDVTQO 60
DB 1 MIVFGNAVFLASRISGGILLTLEHIAHPIGTGAATTGNSGICRDSGTFDSDVTQO 60
QY 61 QQAENSAVPTADTRSQPRDPVRRGRGPHRRKKQNVDTGLVDTLAVIRTLVDK 117
DB 61 QQAENSAVPTADTRSQPRDPVRRGRGPHRRKKQNVDTGLVDTLAVIRTLVDK 117

RESULT 8
ADA47181
ID ADA47181 standard; protein; 117 AA.
XX
AC ADA47181;
XX
DT 20-NOV-2003 (first entry)
XX
DE Human secreted/transmembrane polypeptide PRO444.
XX
XX human; secreted protein; transmembrane protein; PRO; VEGF inhibitor;
KW vascular endothelial growth factor; endothelial cell proliferation;
KW T-lymphocyte proliferation; endothelial cell apoptosis;
KW c-fos stimulation; pancreatic beta cell differentiation;
KW chondrocyte proliferation; glucose uptake; free fatty acid; FFA uptake;
KW tissue typing.
XX
XX Homo sapiens.
XX
XX US2003044844-A1.
XX
XX
XX PD 06-MAR-2003.
XX
XX 01-FEB-2002; 2002US-00066211.
XX
XX 26-AUG-1997; 97US-0065974P.
PR 17-SEP-1997; 97US-0059115P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059588P.
PR 17-OCT-1997; 97US-0062285P.
PR 24-OCT-1997; 97US-0062815P.

PR 24-OCT-1997; 97US-0063082P.
PR 27-OCT-1997; 97US-0063259P.
PR 29-OCT-1997; 97US-0063733P.
PR 21-NOV-1997; 97US-0066364P.
PR 25-NOV-1997; 97US-0066840P.
PR 16-DEC-1997; 97US-0069694P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-MAR-1998; 98US-0079294P.
PR 08-APR-1998; 98US-0081049P.
PR 14-JUL-1998; 98MO-US014552.
PR 10-AUG-1998; 98US-0095938P.
PR 18-AUG-1998; 98US-0097000P.
PR 09-SEP-1998; 98US-0098601P.
PR 10-SEP-1998; 98US-0098803P.
PR 10-SEP-1998; 98US-0099811P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98MO-US018824.
PR 14-SEP-1998; 98MO-US019030.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98MO-US019437.
PR 24-SEP-1998; 98US-0101932P.
PR 28-OCT-1998; 98US-0106032P.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98MO-US024855.
PR 25-NOV-1998; 98MO-US025190.
PR 01-DEC-1998; 98MO-US025108.
PR 08-MAR-1999; 98MO-US005028.
PR 23-MAR-1999; 98US-0125778P.
PR 02-JUN-1999; 99MO-US012252.
PR 15-JUN-1999; 99US-0139695P.
PR 20-JUL-1999; 99US-0145070P.
PR 26-JUL-1999; 99US-0145698P.
PR 17-AUG-1999; 99US-0149396P.
PR 01-SEP-1999; 99MO-US020111.
PR 08-SEP-1999; 99MO-US020584.
PR 15-SEP-1999; 99MO-US021030.
PR 15-SEP-1999; 99MO-US021547.
PR 30-NOV-1999; 99MO-US028313.
PR 01-DEC-1999; 99MO-US028301.
PR 02-DEC-1999; 99MO-US028565.
PR 07-DEC-1999; 99US-0169495P.
PR 20-DEC-1999; 99MO-US030099.
PR 05-JAN-2000; 2000MO-US000219.
PR 18-FEB-2000; 2000MO-US004341.
PR 22-FEB-2000; 2000MO-US004342.
PR 22-FEB-2000; 2000MO-US004414.
PR 02-MAR-2000; 2000MO-US005601.
PR 02-MAR-2000; 2000MO-US005841.
PR 09-MAR-2000; 2000MO-US006471.
PR 20-MAR-2000; 2000MO-US007377.
PR 30-MAR-2000; 2000MO-US008459.
PR 15-MAY-2000; 2000MO-US013358.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 11-AUG-2000; 2000MO-US0202031.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023528.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 30-MAY-2001; 2001MO-US017443.
PR 01-JUN-2001; 2001MO-US017800.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
PR 15-NOV-2001; 2001US-00002796.
XX
XX (GETH) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;

PR 07-OCT-1998; 98US-0103315P
PR 07-OCT-1998; 98US-0103328P
PR 07-OCT-1998; 98US-0103395P
PR 07-OCT-1998; 98US-0103396P
PR 07-OCT-1998; 98US-0103401P
PR 08-OCT-1998; 98US-0103633P
PR 08-OCT-1998; 98US-0103678P
PR 08-OCT-1998; 98US-0103679P
PR 08-OCT-1998; 98US-0103711P
PR 14-OCT-1998; 98US-0104257P
PR 20-OCT-1998; 98US-0104987P
PR 20-OCT-1998; 98US-0105002P
PR 20-OCT-1998; 98US-0105002P
PR 21-OCT-1998; 98US-0105104P
PR 21-OCT-1998; 98US-0105199P
PR 22-OCT-1998; 98US-0105266P
PR 26-OCT-1998; 98US-0105693P
PR 26-OCT-1998; 98US-0105694P
PR 27-OCT-1998; 98US-0105807P
PR 27-OCT-1998; 98US-0105881P
PR 27-OCT-1998; 98US-0105882P
PR 27-OCT-1998; 98US-0106052P
PR 28-OCT-1998; 98US-0106032P
PR 28-OCT-1998; 98US-0106029P
PR 28-OCT-1998; 98US-0106030P
PR 28-OCT-1998; 98US-0106032P
PR 28-OCT-1998; 98US-0106033P
PR 28-OCT-1998; 98US-0106178P
PR 28-OCT-1998; 98US-0106248P
PR 29-OCT-1998; 98US-0106384P
PR 29-OCT-1998; 98US-0108500P
PR 30-OCT-1998; 98US-0106464P
PR 03-NOV-1998; 98US-0106856P
PR 03-NOV-1998; 98US-0106902P
PR 03-NOV-1998; 98US-0106905P
PR 03-NOV-1998; 98US-0106932P
PR 03-NOV-1998; 98US-0106934P
PR 10-NOV-1998; 98US-0107783P
PR 17-NOV-1998; 98US-0108775P
PR 17-NOV-1998; 98US-0108779P
PR 17-NOV-1998; 98US-0108787P
PR 17-NOV-1998; 98US-0108788P
PR 17-NOV-1998; 98US-0108801P
PR 17-NOV-1998; 98US-0108802P
PR 17-NOV-1998; 98US-0108806P
PR 17-NOV-1998; 98US-0108807P
PR 17-NOV-1998; 98US-0108825P
PR 18-NOV-1998; 98US-0108848P
PR 18-NOV-1998; 98US-0108849P
PR 18-NOV-1998; 98US-0108850P
PR 18-NOV-1998; 98US-0108851P
PR 18-NOV-1998; 98US-0108852P
PR 18-NOV-1998; 98US-0108858P
PR 18-NOV-1998; 98US-0108904P
PR 22-DEC-1998; 98US-0112966P
PR 30-DEC-1998; 98US-0114233P
PR 05-JAN-1999; 99WO-US000106
PR 16-APR-1999; 99US-0129674P
PR 23-JUN-1999; 99US-0141037P
PR 20-JUL-1999; 99US-0144758P
PR 26-JUL-1999; 99US-0145698P
PR 01-SEP-1999; 99WO-US020111
PR 15-SEP-1999; 99WO-US021194
PR 29-OCT-1999; 99US-0162506P
PR 30-NOV-1999; 99WO-US028313
PR 02-DEC-1999; 99WO-US028551
PR 16-DEC-1999; 99WO-US030095
PR 05-JAN-2000; 2000WO-US000219
PR 06-JAN-2000; 2000WO-US000376
PR 11-FEB-2000; 2000WO-US003565
PR 18-FEB-2000; 2000WO-US004342

PR 24-FEB-2000; 2000WO-US005004
PR 02-MAR-2000; 2000WO-US005841
PR 15-MAR-2000; 2000WO-US006884
PR 17-MAY-2000; 2000WO-US013705
PR 22-MAY-2000; 2000WO-US014042
PR 30-MAY-2000; 2000WO-US014941
PR 02-JUN-2000; 2000WO-US015284
PR 23-AUG-2000; 2000WO-US023352
PR 24-AUG-2000; 2000WO-US023358
PR 08-NOV-2000; 2000WO-US030952
PR 10-NOV-2000; 2000WO-US030873
PR 01-DEC-2000; 2000WO-US032678
PR 28-FEB-2001; 2001WO-US006520
PR 01-MAR-2001; 2001WO-US006666
PR 01-JUN-2001; 2001WO-US017800
PR 20-JUN-2001; 2001WO-US019692
PR 29-JUN-2001; 2001WO-US021066
PR 09-JUL-2001; 2001WO-US021735
PR 04-SEP-2001; 2001US-00946374
XX
XX
PA (GENTECH) GENENTECH INC.
XX
XX Baker KP, Botstein D, Desnoyers L, Eaton DU, Ferrara N, Fong S,
PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
PI Williams PW, Wood WI;
XX
XX WPI; 2003-492259/46.
DR N-PSDB; ACH04344.
XX
XX Novel secreted and transmembrane polypeptides and polynucleotides
PT encoding them useful for treating various cardiac insufficiency
PT disorders, bone and/or cartilage disorders such as sports injuries and
PT arthritis.
Query Match 100.0%; Score 609; DB 7; Length 117;
Best Local Similarity 100.0%; Pred.No. 2e-63;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MYFGAVFLASRSIQGGILLTLEHIAFLGTGAATTMNSCICRDPDSGTDSVDTQQ 60
DB 1 MYFGAVFLASRSIQGGILLTLEHIAFLGTGAATTMNSCICRDPDSGTDSVDTQQ 60
QY 61 QQAENSAVPTADTQRSQPRDPVPPRRGRGPHPPRRKKQNVDELVIDTAVITLVDX 117
DB 61 QQAENSAVPTADTQRSQPRDPVPPRRGRGPHPPRRKKQNVDELVIDTAVITLVDX 117
RESULT 10
ABO33460 standard; protein; 117 AA.
ID ABO33460;
XX
AC ABO33460;
XX
DT 17-SEP-2003 (first entry)
XX
XX Novel human secreted and transmembrane protein PRO444.
DE
XX
XX Human; secreted and transmembrane protein; PRO; gene therapy; vaccine;
KW class typing; chromosome identification; vaccine.
OS Homo sapiens.
XX
XX US2003073129-A1.
PN
XX
PD 17-Apr-2003.
XX
PF 04-SEP-2001; 2001US-00946374.
XX
XX 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 01-SEP-1998; 98US-0098749P.
PR 01-SEP-1998; 98US-0098750P.

PR 02-SEP-1998; 98US-0098803P.
 PR 02-SEP-1998; 98US-0098821P.
 PR 02-SEP-1998; 98US-0098843P.
 PR 09-SEP-1998; 98US-0099536P.
 PR 09-SEP-1998; 98US-0099596P.
 PR 09-SEP-1998; 98US-0099598P.
 PR 09-SEP-1998; 98US-0099602P.
 PR 09-SEP-1998; 98US-0099642P.
 PR 10-SEP-1998; 98US-0099741P.
 PR 10-SEP-1998; 98US-0099754P.
 PR 10-SEP-1998; 98US-0099763P.
 PR 10-SEP-1998; 98US-0099792P.
 PR 10-SEP-1998; 98US-0099808P.
 PR 10-SEP-1998; 98US-0099812P.
 PR 10-SEP-1998; 98US-0099815P.
 PR 10-SEP-1998; 98US-0099816P.
 PR 15-SEP-1998; 98US-0100385P.
 PR 15-SEP-1998; 98US-0100388P.
 PR 15-SEP-1998; 98US-0100390P.
 PR 15-SEP-1998; 98US-0100584P.
 PR 16-SEP-1998; 98US-0100627P.
 PR 16-SEP-1998; 98US-0100661P.
 PR 16-SEP-1998; 98US-0100662P.
 PR 16-SEP-1998; 98US-0100664P.
 PR 17-SEP-1998; 98US-0100683P.
 PR 17-SEP-1998; 98US-0100684P.
 PR 17-SEP-1998; 98US-0100710P.
 PR 17-SEP-1998; 98US-0100711P.
 PR 17-SEP-1998; 98US-0100919P.
 PR 18-SEP-1998; 98US-0100930P.
 PR 18-SEP-1998; 98US-0100848P.
 PR 18-SEP-1998; 98US-0100849P.
 PR 18-SEP-1998; 98US-0101014P.
 PR 18-SEP-1998; 98US-0101068P.
 PR 18-SEP-1998; 98US-0101071P.
 PR 22-SEP-1998; 98US-0101279P.
 PR 23-SEP-1998; 98US-0101471P.
 PR 23-SEP-1998; 98US-0101472P.
 PR 23-SEP-1998; 98US-0101474P.
 PR 23-SEP-1998; 98US-0101475P.
 PR 23-SEP-1998; 98US-0101476P.
 PR 23-SEP-1998; 98US-0101479P.
 PR 23-SEP-1998; 98US-0101479P.
 PR 24-SEP-1998; 98US-0101738P.
 PR 24-SEP-1998; 98US-0101741P.
 PR 24-SEP-1998; 98US-0101743P.
 PR 24-SEP-1998; 98US-0101915P.
 PR 24-SEP-1998; 98US-0101916P.
 PR 29-SEP-1998; 98US-0102207P.
 PR 29-SEP-1998; 98US-0102240P.
 PR 29-SEP-1998; 98US-0102307P.
 PR 29-SEP-1998; 98US-0102330P.
 PR 29-SEP-1998; 98US-0102331P.
 PR 30-SEP-1998; 98US-0102484P.
 PR 30-SEP-1998; 98US-0102487P.
 PR 30-SEP-1998; 98US-0102570P.
 PR 30-SEP-1998; 98US-0102571P.
 PR 01-OCT-1998; 98US-0102684P.
 PR 01-OCT-1998; 98US-0102687P.
 PR 02-OCT-1998; 98US-0102965P.
 PR 06-OCT-1998; 98US-0103258P.
 PR 06-OCT-1998; 98US-0103314P.
 PR 07-OCT-1998; 98US-0103315P.
 PR 07-OCT-1998; 98US-0103328P.
 PR 07-OCT-1998; 98US-0103395P.
 PR 07-OCT-1998; 98US-0103396P.
 PR 08-OCT-1998; 98US-0103401P.
 PR 08-OCT-1998; 98US-0103633P.
 PR 08-OCT-1998; 98US-0103678P.
 PR 08-OCT-1998; 98US-0103679P.
 PR 14-OCT-1998; 98US-0103711P.
 PR 14-OCT-1998; 98US-0104257P.

PR 20-OCT-1998; 98US-0104987P.
 PR 20-OCT-1998; 98US-0105000P.
 PR 20-OCT-1998; 98US-0105002P.
 PR 21-OCT-1998; 98US-0105104P.
 PR 22-OCT-1998; 98US-0105169P.
 PR 22-OCT-1998; 98US-0105266P.
 PR 26-OCT-1998; 98US-0105633P.
 PR 26-OCT-1998; 98US-0105644P.
 PR 27-OCT-1998; 98US-0105807P.
 PR 27-OCT-1998; 98US-0105811P.
 PR 27-OCT-1998; 98US-0105882P.
 PR 27-OCT-1998; 98US-0106022P.
 PR 28-OCT-1998; 98US-0106023P.
 PR 28-OCT-1998; 98US-0106029P.
 PR 28-OCT-1998; 98US-0106030P.
 PR 28-OCT-1998; 98US-0106032P.
 PR 28-OCT-1998; 98US-0106033P.
 PR 28-OCT-1998; 98US-0106178P.
 PR 28-OCT-1998; 98US-0106248P.
 PR 29-OCT-1998; 98US-0106384P.
 PR 29-OCT-1998; 98US-0108500P.
 PR 30-OCT-1998; 98US-0106464P.
 PR 03-NOV-1998; 98US-0106856P.
 PR 03-NOV-1998; 98US-0106902P.
 PR 03-NOV-1998; 98US-0106905P.
 PR 03-NOV-1998; 98US-0106919P.
 PR 03-NOV-1998; 98US-0106932P.
 PR 03-NOV-1998; 98US-0106934P.
 PR 10-NOV-1998; 98US-0107783P.
 PR 17-NOV-1998; 98US-0108775P.
 PR 17-NOV-1998; 98US-0108779P.
 PR 17-NOV-1998; 98US-0108787P.
 PR 17-NOV-1998; 98US-0108788P.
 PR 17-NOV-1998; 98US-0108801P.
 PR 17-NOV-1998; 98US-0108802P.
 PR 17-NOV-1998; 98US-0108806P.
 PR 17-NOV-1998; 98US-0108807P.
 PR 17-NOV-1998; 98US-0108867P.
 PR 17-NOV-1998; 98US-0108925P.
 PR 18-NOV-1998; 98US-0108848P.
 PR 18-NOV-1998; 98US-0108849P.
 PR 18-NOV-1998; 98US-0108850P.
 PR 18-NOV-1998; 98US-0108851P.
 PR 18-NOV-1998; 98US-0108852P.
 PR 18-NOV-1998; 98US-0108858P.
 PR 18-NOV-1998; 98US-0108904P.
 PR 22-DEC-1998; 98US-0021851P.
 PR 22-DEC-1998; 98US-0114223P.
 PR 30-DEC-1998; 98US-0114223P.
 PR 05-JAN-1999; 98US-00284291.
 PR 12-APR-1999; 98US-0123674P.
 PR 16-APR-1999; 98US-0123674P.
 PR 23-JUN-1999; 98US-0141037P.
 PR 20-JUL-1999; 98US-0144758P.
 PR 26-JUL-1999; 98US-0145698P.
 PR 01-SEP-1999; 98US-0145698P.
 PR 15-SEP-1999; 98US-0145698P.
 PR 18-OCT-1999; 98US-0145698P.
 PR 30-NOV-1999; 98US-0145698P.
 PR 02-DEC-1999; 98US-0145698P.
 PR 16-DEC-1999; 98US-0145698P.
 PR 05-JAN-2000; 98US-0145698P.
 PR 11-FEB-2000; 98US-0145698P.
 PR 18-FEB-2000; 98US-0145698P.
 PR 24-FEB-2000; 98US-0145698P.
 PR 02-MAR-2000; 98US-0145698P.
 PR 15-MAR-2000; 98US-0145698P.
 PR 17-MAY-2000; 98US-0145698P.
 PR 22-MAY-2000; 98US-0145698P.
 PR 30-MAY-2000; 98US-0145698P.
 PR 02-JUN-2000; 98US-0145698P.
 PR 23-AUG-2000; 98US-0145698P.

24-AUG-2000; 2000MO-US023328.
PR 08-NOV-2000; 2000MO-US030352.
PR 10-NOV-2000; 2000MO-US030873.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 01-MAR-2001; 2001MO-US006666.
PR 01-JUN-2001; 2001MO-US072035.
PR 01-JUN-2001; 2001MO-US017800.
PR 14-JUN-2001; 2001MO-US082636.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
XX
XX (GETH) GENENTECH INC.
XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S,
PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
PI Williams PM, Wood WI;
XX WPI: 2003-5565292/55.
DR N-PSDB; ACD67888.
XX
XX Novel isolated PRO polypeptides e.g. PRO1491 and PRO1571, useful in the
PT preparation of a medicament for treating a condition responsive to PRO
PT polypeptide, and as therapeutic agents e.g. vaccines.
XX
XX Claim 12; Fig 4; 561pp; English.
XX
XX The invention describes an isolated PRO (secreted and transmembrane)
CC polypeptide (I), having at least 80% sequence identity to a sequence
Query March 100.0%; Score 609; DB 7; Length 117;
Best local similarity 100.0%; Pred. No. 2e-63;
Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1 MIVEGMAVFLASRSLGGGLLTLEHIAHFLGTGGAATTGNSCTICRDSGTDSDVTQQ 60
DB 1 MIVEGMAVFLASRSLGGGLLTLEHIAHFLGTGGAATTGNSCTICRDSGTDSDVTQQ 60
QY 61 QQAENSAVPTADTSOPRDPYRPPRRGRGPRRRKKQNVGLVLTPLAVIRTLVDR 117
DB 61 QQAENSAVPTADTSOPRDPYRPPRRGRGPRRRKKQNVGLVLTPLAVIRTLVDR 117
RESULT 11
AB019838
ID AB019838 standard; protein; 117 AA.
XX
XX AB019838;
AC
XX
XX 29-AUG-2003 (first entry)
DT
XX
XX Human secreted/transmembrane protein PRO444.
DE
XX
XX Human; PRO; secreted and transmembrane protein; gene therapy;
KM enterocolitis; gastrointestinal ulceration; skin disease; asthma;
KM abdominal keratinocyte differentiation; psoriasis; epithelial cancer;
KM squamous cell carcinoma; Alzheimer's disease; Parkinson's disease;
KM amyotrophic sclerosis; inflammatory disease; organ failure;
KM rheumatoid arthritis; multiple sclerosis; atherosclerosis; infertility;
KM cardiac injury; birth defect; premature aging; AIDS; cancer;
KM diabetic complication; wound repair.
XX
XX Homo sapiens.
OS
XX
XX US2003044902-A1.
PN
XX
XX 06-MAR-2003.
PD
XX
XX 01-FEB-2002; 2002US-00066193.
PF
XX
XX 26-AUG-1997; 97US-0056974P.

17-SEP-1997; 97US-0059115P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059588P.
PR 17-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063082P.
PR 27-OCT-1997; 97US-0063329P.
PR 29-OCT-1997; 97US-0063733P.
PR 21-NOV-1997; 97US-0066364P.
PR 25-NOV-1997; 97US-0066840P.
PR 16-DEC-1997; 97US-0069694P.
PR 09-FEB-1998; 98US-0074086P.
PR 09-FEB-1998; 98US-0074092P.
PR 25-MAR-1998; 98US-0079294P.
PR 08-APR-1998; 98US-0081049P.
PR 10-AUG-1998; 98US-0095988P.
PR 18-AUG-1998; 98US-0097000P.
PR 09-SEP-1998; 98US-0099601P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98US-0099811P.
PR 10-SEP-1998; 98US-0099812P.
PR 14-SEP-1998; 98MO-US019033.
PR 16-SEP-1998; 98MO-US019330.
PR 17-SEP-1998; 98US-0100858P.
PR 17-SEP-1998; 98MO-US019437.
PR 24-SEP-1998; 98US-0101922P.
PR 28-OCT-1998; 98US-0106032P.
PR 20-NOV-1998; 98US-0109304P.
PR 20-NOV-1998; 98MO-US024855.
PR 25-NOV-1998; 98MO-US025190.
PR 01-DEC-1998; 98MO-US025108.
PR 08-MAR-1999; 99MO-US005028.
PR 23-MAR-1999; 99US-0125778P.
PR 02-JUN-1999; 99MO-US021252.
PR 15-JUN-1999; 99US-0139695P.
PR 20-JUL-1999; 99US-0145070P.
PR 26-JUL-1999; 99US-0145698P.
PR 17-AUG-1999; 99US-0149396P.
PR 01-SEP-1999; 99MO-US020111.
PR 08-SEP-1999; 99MO-US020594.
PR 15-SEP-1999; 99MO-US021090.
PR 15-SEP-1999; 99MO-US021547.
PR 30-NOV-1999; 99MO-US028313.
PR 01-DEC-1999; 99MO-US028301.
PR 02-DEC-1999; 99MO-US028565.
PR 07-DEC-1999; 99US-0163495P.
PR 20-DEC-1999; 99MO-US030999.
PR 05-JAN-2000; 2000MO-US000219.
PR 18-FEB-2000; 2000MO-US004341.
PR 18-FEB-2000; 2000MO-US004342.
PR 22-FEB-2000; 2000MO-US004414.
PR 01-MAR-2000; 2000MO-US005601.
PR 02-MAR-2000; 2000MO-US005841.
PR 09-MAR-2000; 2000MO-US006471.
PR 20-MAR-2000; 2000MO-US007377.
PR 30-MAR-2000; 2000MO-US008439.
PR 15-MAY-2000; 2000MO-US013358.
PR 17-MAY-2000; 2000MO-US013705.
PR 22-MAY-2000; 2000MO-US014042.
PR 30-MAY-2000; 2000MO-US014941.
PR 02-JUN-2000; 2000MO-US015264.
PR 11-AUG-2000; 2000MO-US020203.
PR 23-AUG-2000; 2000MO-US023522.
PR 24-AUG-2000; 2000MO-US023328.
PR 01-DEC-2000; 2000MO-US032678.
PR 28-FEB-2001; 2001MO-US006520.
PR 30-MAY-2001; 2001MO-US017443.
PR 01-JUN-2001; 2001MO-US017800.
PR 20-JUN-2001; 2001MO-US019692.
PR 29-JUN-2001; 2001MO-US021066.
PR 09-JUL-2001; 2001MO-US021735.
PR 15-NOV-2001; 2001US-00002796.

PA (GETH) GENENTECH INC.
 XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
 PI Ferrara N, Fong S, Gao W, Gerber H, Gertsen ME, Goddard A;
 PI Godowski PJ, Gunney AL, Kijavini IV, Mather JP, Napier MA, Pan J,
 PI Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;
 XX
 DR MPI: 492261/46.
 DR N-PSDB; ACD30202.
 XX
 PT New PRO polypeptides and nucleic acid molecules, useful in diagnosing or
 PT treating inflammatory diseases, organ failure, atherosclerosis, cardiac
 PT injury, infertility, cancer, AIDS, Alzheimer's disease or Parkinson's
 PT disease.
 XX
 XX Claim 21: Fig 4; 154pp; English.
 XX
 CC The invention relates to an isolated native sequence PRO polypeptide
 CC (secreted and transmembrane protein) having 80% sequence similarity to
 CC one of 37 proteins sequences (or PRO lacking its signal peptide), a PRO
 CC extracellular domain (with or without a signal peptide) encoded by a
 CC nucleic acid 80% identical to one of 37 cDNA sequences, shown in the
 CC specification. Also included are vectors comprising the PRO nucleic
 CC acids, host cells comprising the vectors (used to produce the PRO
 CC proteins), a chimeric molecule comprising the PRO polypeptide fused to a
 CC heterologous amino acid sequence, an anti-PRO antibody, linking a
 CC bioactive molecule to a cell expressing the PRO polypeptides and
 CC modulating at least one biological activity of a cell expressing the
 CC polypeptides. The PRO polypeptides and nucleic acids are useful in
 CC diagnosing or treating enterocolitis, gastrointestinal ulceration, skin
 CC diseases associated with abnormal keratinocyte differentiation, e.g.,
 CC psoriasis or epithelial cancers such as squamous cell carcinoma,
 CC Alzheimer's disease, Parkinson's disease, amyotrophic lateral sclerosis,
 CC inflammatory diseases, e.g. rheumatoid arthritis, asthma or multiple
 CC sclerosis, organ failure, atherosclerosis, cardiac injury, infertility,
 CC birth defects, premature aging, AIDS, cancer, diabetic complications, or
 CC mutations in general. The polypeptides are also useful for wound repair
 CC and associated therapies concerned with re-growth of tissue. The
 CC nucleotide sequences may be used as hybridisation probes in chromosome
 CC and gene mapping, or in generating antisense RNA and DNA. PRO nucleic
 CC acids are also useful in preparing PRO polypeptides, in assays to
 CC identify other proteins or molecules involved in binding reaction, to
 CC generate transgenic animals or knockout animals, which in turn are useful
 CC in the development and screening of therapeutically useful reagents and
 CC chromosome identification, and tissue typing. The PRO polypeptides and
 CC nucleic acid molecules are also useful in gene therapy, and as molecular
 CC weight markers for protein electrophoresis purposes. The anti-PRO
 CC antibodies may be used in diagnostic assays for PRO, or for the affinity
 CC purification of PRO from recombinant cell culture or natural sources. The
 CC present sequence represents a PRO protein of the invention
 XX
 XX Sequence 117 AA:
 XX
 Query Match 100.0%; Score 609; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MIVFGAVFLASRSGGILLTEHIAFLGTGGAATMGNSCTCRDSDGSDSDVDVQ 60
 DB 1 MIVFGAVFLASRSGGILLTEHIAFLGTGGAATMGNSCTCRDSDGSDSDVDVQ 60
 QY 61 QQAENSAVPTADTRSGPRDVPVRPRGRGPHRRKKQNVDDIVDTTAVITLVDK 117
 DB 61 QQAENSAVPTADTRSGPRDVPVRPRGRGPHRRKKQNVDDIVDTTAVITLVDK 117
 RESULT 12
 ID ADCl7875 standard; protein; 117 AA.
 XX
 AC ADCl7875;
 XX

DT 18-DEC-2003 (first entry)
 XX
 DE Human PRO polypeptide #2.
 XX
 KW Human; PRO; protein electrophoresis; chromosome mapping; gene mapping;
 KW genetic disorder.
 XX
 OS Homo sapiens.
 XX
 PN US2003064925-A1.
 XX
 PD 03-APR-2003.
 XX
 PF 10-DEC-2001; 2001US-00013907.
 XX
 PR 01-SEP-1998; 98US-0098716P.
 PR 01-SEP-1998; 98US-0098723P.
 PR 01-SEP-1998; 98US-0098749P.
 PR 01-SEP-1998; 98US-0098750P.
 PR 02-SEP-1998; 98US-0098803P.
 PR 02-SEP-1998; 98US-0098821P.
 PR 02-SEP-1998; 98US-0098843P.
 PR 03-SEP-1998; 98US-0099536P.
 PR 03-SEP-1998; 98US-0099596P.
 PR 03-SEP-1998; 98US-0099598P.
 PR 03-SEP-1998; 98US-0099602P.
 PR 03-SEP-1998; 98US-0099642P.
 PR 03-SEP-1998; 98US-0099741P.
 PR 10-SEP-1998; 98US-0099754P.
 PR 10-SEP-1998; 98US-0099763P.
 PR 10-SEP-1998; 98US-0099792P.
 PR 10-SEP-1998; 98US-0099808P.
 PR 10-SEP-1998; 98US-0099812P.
 PR 10-SEP-1998; 98US-0099815P.
 PR 10-SEP-1998; 98US-0099816P.
 PR 15-SEP-1998; 98US-0100385P.
 PR 15-SEP-1998; 98US-0100388P.
 PR 15-SEP-1998; 98US-0100390P.
 PR 15-SEP-1998; 98US-0100584P.
 PR 16-SEP-1998; 98US-0100627P.
 PR 16-SEP-1998; 98US-0100651P.
 PR 16-SEP-1998; 98US-0100662P.
 PR 16-SEP-1998; 98US-0100664P.
 PR 17-SEP-1998; 98US-0100683P.
 PR 17-SEP-1998; 98US-0100684P.
 PR 17-SEP-1998; 98US-0100710P.
 PR 17-SEP-1998; 98US-0100711P.
 PR 17-SEP-1998; 98US-0100919P.
 PR 17-SEP-1998; 98US-0100930P.
 PR 17-SEP-1998; 98US-0100948P.
 PR 18-SEP-1998; 98US-0100849P.
 PR 18-SEP-1998; 98US-0101014P.
 PR 18-SEP-1998; 98US-0101068P.
 PR 18-SEP-1998; 98US-0101071P.
 PR 18-SEP-1998; 98US-0101279P.
 PR 22-SEP-1998; 98US-0101471P.
 PR 23-SEP-1998; 98US-0101472P.
 PR 23-SEP-1998; 98US-0101474P.
 PR 23-SEP-1998; 98US-0101475P.
 PR 23-SEP-1998; 98US-0101476P.
 PR 23-SEP-1998; 98US-0101477P.
 PR 23-SEP-1998; 98US-0101479P.
 PR 24-SEP-1998; 98US-0101738P.
 PR 24-SEP-1998; 98US-0101741P.
 PR 24-SEP-1998; 98US-0101743P.
 PR 24-SEP-1998; 98US-0101915P.
 PR 24-SEP-1998; 98US-0101916P.
 PR 29-SEP-1998; 98US-0102207P.
 PR 29-SEP-1998; 98US-0102240P.
 PR 29-SEP-1998; 98US-0102307P.
 PR 29-SEP-1998; 98US-0102310P.
 PR 29-SEP-1998; 98US-0102311P.
 PR 30-SEP-1998; 98US-0102484P.

```
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 01-OCT-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0103314P.
PR 07-OCT-1998; 98US-0103315P.
PR 07-OCT-1998; 98US-0103328P.
PR 07-OCT-1998; 98US-0103395P.
PR 07-OCT-1998; 98US-0103396P.
PR 07-OCT-1998; 98US-0103401P.
PR 08-OCT-1998; 98US-0103633P.
PR 08-OCT-1998; 98US-0103678P.
PR 08-OCT-1998; 98US-0103711P.
PR 14-OCT-1998; 98US-0104357P.
PR 14-OCT-1998; 98US-0104387P.
PR 20-OCT-1998; 98US-0105000P.
PR 20-OCT-1998; 98US-0105002P.
PR 21-OCT-1998; 98US-0105104P.
PR 22-OCT-1998; 98US-0105169P.
PR 22-OCT-1998; 98US-0105266P.
PR 26-OCT-1998; 98US-0105693P.
PR 26-OCT-1998; 98US-0105694P.
PR 27-OCT-1998; 98US-0105807P.
PR 27-OCT-1998; 98US-0105811P.
PR 27-OCT-1998; 98US-0105882P.
PR 27-OCT-1998; 98US-0106022P.
PR 28-OCT-1998; 98US-0106023P.
PR 28-OCT-1998; 98US-0106029P.
PR 28-OCT-1998; 98US-0106030P.
PR 28-OCT-1998; 98US-0106032P.
PR 28-OCT-1998; 98US-0106033P.
PR 28-OCT-1998; 98US-0106178P.
PR 29-OCT-1998; 98US-0106248P.
PR 29-OCT-1998; 98US-0106384P.
PR 29-OCT-1998; 98US-0108500P.
PR 30-OCT-1998; 98US-0106464P.
PR 03-NOV-1998; 98US-0106856P.
PR 03-NOV-1998; 98US-0106902P.
PR 03-NOV-1998; 98US-0106905P.
PR 03-NOV-1998; 98US-0106919P.
PR 03-NOV-1998; 98US-0106932P.
PR 03-NOV-1998; 98US-0106934P.
PR 10-NOV-1998; 98US-0107773P.
PR 17-NOV-1998; 98US-0108775P.
PR 17-NOV-1998; 98US-0108779P.
PR 17-NOV-1998; 98US-0108787P.
PR 17-NOV-1998; 98US-0108788P.
PR 17-NOV-1998; 98US-0108801P.
PR 17-NOV-1998; 98US-0108802P.
PR 17-NOV-1998; 98US-0108806P.
PR 17-NOV-1998; 98US-0108807P.
PR 17-NOV-1998; 98US-0108867P.
PR 17-NOV-1998; 98US-0108925P.
PR 18-NOV-1998; 98US-0108848P.
PR 18-NOV-1998; 98US-0108849P.
PR 18-NOV-1998; 98US-0108850P.
PR 18-NOV-1998; 98US-0108851P.
PR 18-NOV-1998; 98US-0108852P.
PR 18-NOV-1998; 98US-0108858P.
PR 18-NOV-1998; 98US-0108904P.
PR 22-DEC-1998; 98US-0113266P.
PR 30-DEC-1998; 98US-0114223P.
PR 05-JAN-1999; 99WO-US000106.
PR 16-APR-1999; 99US-0129674P.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144788P.
PR 26-JUL-1999; 99US-0145698P.
PR 01-SEP-1999; 99WO-US020111.

PR 15-SEP-1999; 99WO-US021194.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028513.
PR 02-DEC-1999; 99WO-US028511.
PR 16-DEC-1999; 99WO-US030095.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014841.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023528.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006566.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 04-SEP-2001; 2001US-00946374.

XX (GENTH ) GENENTECH INC.
XX Baker KP, Botstein D, Desnoyers L, Baton DL, Ferrara N, Fong S;
XX Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
XX Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK;
XX Williams PM, Wood WI;
XX WPI; 2003-555602/52.
XX N-PSDB; ADCl7874.
XX Novel isolated PRO polypeptides e.g. PRO1491 and PRO1571, useful in the
XX preparation of a medicament for treating a condition responsive to PRO
XX polypeptide, and as therapeutic agents e.g. vaccines.
XX
XX Claim 12; SEQ ID NO 6; 555pp; English.
XX
XX The invention relates to human PRO polypeptides and the polynucleotides
XX encoding them. The sequences are useful in the preparation of a
XX medicament for treating a condition responsive to a PRO polypeptide. The
XX polypeptides are useful in a number of functional biological assays, as
XX molecular weight markers for protein electrophoresis and as therapeutic
XX
XX Query Match 100.0%; Score 609; DB 7; Length 117;
XX Best Local Similarity 100.0%; Pred. No. 2e-63;
XX Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1 MIVFGMAVFILASRSIGQGLITLLEHIAHFIQTGGAATTMNSCICRDSGTDSDVTQQ 60
XX 1 MIVFGMAVFILASRSIGQGLITLLEHIAHFIQTGGAATTMNSCICRDSGTDSDVTQQ 60
XX
XX 61 COAENSANVPLADTRSQPRDPVPRPPRGSGPHEPRKKKQNVGLVDTLAVIRTLVKK 117
XX 61 COAENSANVPLADTRSQPRDPVPRPPRGSGPHEPRKKKQNVGLVDTLAVIRTLVKK 117
XX
XX RESULT 13
XX ADD10295
XX ID ADD10295 standard; protein; 117 AA.
XX
XX AC ADD10295;
XX
XX XX 01-JAN-2004 (first entry)
XX DT
XX XX Human secreted/transmembrane PRO polypeptide #3.
XX DE
```

XX human; secreted protein; transmembrane protein; cardiovascular disorder;
 KW endothelial disorder; angiogenic disorder; myocardial infarction;
 KW cardiac hypertrophy; trauma; cancer; age-related macular degeneration;
 KW angiogenesis; endothelial cell apoptosis; smooth muscle cell growth;
 KW endothelial cell tube formation.
 OS Homo sapiens.
 XX US2003105011-A1.
 XX PD 05-JUN-2003.
 XX PF 16-AUG-2002; 2002US-00223084.
 XX PR 15-SEP-2000; 2000US-0232887P.
 XX PR 20-JUN-2001; 2001WO-US019692.
 XX PR 09-JUL-2001; 2001WO-US021735.
 XX PR 20-FEB-2002; 2002US-00081056.
 XX PA (GETH) GENENTECH INC.
 XX PI Baker KP, Ferrara N, Gerber H, Gertsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Hillen KJ, Marsters SA, Pan J, Stephan JF;
 PI Watanabe CK, Williams PM, Wood WI, Ye W;
 XX WPI; 2003-810831/76.
 DR N-PSDB; ADD10294.
 PT New isolated nucleic acid encoding a secreted and transmembrane
 PT polypeptide for treating a cardiovascular, endothelial, or angiogenic
 PT disorder in a mammal, such as cancer or age-related macular degeneration.
 PS Claim 11; SEQ ID NO 6; 493bp; English.
 XX The invention relates to an isolated nucleic acid encoding a secreted and
 CC transmembrane polypeptide (PRO). The nucleic acid, a polypeptide encoded
 CC by the nucleic acid, or an agonist or antagonist, is used to treat a
 CC cardiovascular, endothelial, or angiogenic disorder in a mammal,
 CC preferably a human. The human may have suffered a myocardial infarction
 CC or has cardiac hypertrophy, trauma, a cancer, or age-related macular
 CC degeneration. The cardiac hypertrophy is characterized by the presence of
 CC an elevated level of PGF-2 alpha. A PRO polypeptide, given in the
 CC specification, or an agonist is used to inhibit or stimulate endothelial
 CC cell growth in a mammal. PRO21 or an agonist is used to induce cardiac
 CC hypertrophy. PRO1376 or PRO1449 is used to stimulate angiogenesis.
 CC PRO4302 or an agonist is used to induce endothelial cell apoptosis. A PRO
 CC polypeptide, given in the specification, or an agonist is used to
 CC stimulate or inhibit smooth muscle cell growth, or to induce endothelial
 CC cell tube formation. The present sequence represents the amino acid
 CC sequence of a PRO polypeptide of the invention.
 XX Sequence 117 AA;
 SQ
 Query Match 100.0%; Score 609; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MIVFGNAVFLASRLSGGLLTLEHIAHFGATMGNSICRDSGTDSDVDTQ 60
 DB 1 MIVFGNAVFLASRLSGGLLTLEHIAHFGATMGNSICRDSGTDSDVDTQ 60
 QY 61 QQAENSAPVTADTRSGPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
 DB 61 QQAENSAPVTADTRSGPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
 RESULT 14
 ADD11255
 ID ADD11255 standard; protein; 117 AA.
 XX
 AC ADD11255;
 XX

DT 01-JAN-2004 (first entry)
 XX DE Human secreted/transmembrane PRO polypeptide #3.
 XX KW human; secreted protein; transmembrane protein; cardiovascular disorder;
 KW endothelial disorder; angiogenic disorder; myocardial infarction;
 KW cardiac hypertrophy; trauma; cancer; age-related macular degeneration;
 KW angiogenesis; endothelial cell apoptosis; smooth muscle cell growth;
 KW endothelial cell tube formation.
 OS Homo sapiens.
 XX US2003105013-A1.
 XX EN 05-JUN-2003.
 XX PD 16-AUG-2002; 2002US-00223090.
 XX PF 20-JUN-2001; 2001WO-US019692.
 XX PR 09-JUL-2001; 2001WO-US021735.
 XX PR 20-FEB-2002; 2002US-00081056.
 XX PA (GETH) GENENTECH INC.
 XX PI Baker KP, Ferrara N, Gerber H, Gertsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Hillen KJ, Marsters SA, Pan J, Stephan JF;
 PI Watanabe CK, Williams PM, Wood WI, Ye W;
 XX WPI; 2003-801242/75.
 DR N-PSDB; ADD11254.
 PT New isolated nucleic acid encoding a secreted and transmembrane
 PT polypeptide useful for treating a cardiovascular, endothelial, or
 PT angiogenic disorder in a mammal, such as cancer or age-related macular
 PT degeneration.
 PS Claim 11; SEQ ID NO 6; 493bp; English.
 XX The invention relates to an isolated nucleic acid encoding a secreted and
 CC transmembrane polypeptide (PRO). The nucleic acid, a polypeptide encoded
 CC by the nucleic acid, or an agonist or antagonist, is used to treat a
 CC cardiovascular, endothelial, or angiogenic disorder in a mammal,
 CC preferably a human. The human may have suffered a myocardial infarction
 CC or has cardiac hypertrophy, trauma, a cancer, or age-related macular
 CC degeneration. The cardiac hypertrophy is characterized by the presence of
 CC an elevated level of PGF-2 alpha. A PRO polypeptide, given in the
 CC specification, or an agonist is used to inhibit or stimulate endothelial
 CC cell growth in a mammal. PRO21 or an agonist is used to induce cardiac
 CC hypertrophy. PRO1376 or PRO1449 is used to stimulate angiogenesis.
 CC PRO4302 or an agonist is used to induce endothelial cell apoptosis. A PRO
 CC polypeptide, given in the specification, or an agonist is used to
 CC stimulate or inhibit smooth muscle cell growth, or to induce endothelial
 CC cell tube formation. The present sequence represents the amino acid
 CC sequence of a PRO polypeptide of the invention.
 XX Sequence 117 AA;
 SQ
 Query Match 100.0%; Score 609; DB 7; Length 117;
 Best Local Similarity 100.0%; Pred. No. 2e-63;
 Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1 MIVFGNAVFLASRLSGGLLTLEHIAHFGATMGNSICRDSGTDSDVDTQ 60
 DB 1 MIVFGNAVFLASRLSGGLLTLEHIAHFGATMGNSICRDSGTDSDVDTQ 60
 QY 61 QQAENSAPVTADTRSGPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
 DB 61 QQAENSAPVTADTRSGPRDPVPRPRGRGPHPRKKQNDGLVDTLAVIRTLVDK 117
 RESULT 15
 ADD70521
 ID ADD70521 standard; protein; 117 AA.
 XX

XX AC ADD70521;
XX XX 15-JAN-2004 (first entry)
XX XX Human secreted/transmembrane protein PRO444.
XX XX Human; secreted protein; transmembrane protein; PRO; tumour;
XX KM immune response; cardiac insufficiency disorder; calcium flux;
XX KM umbilical vein endothelial cell; bone disorder; cartilage disorder;
XX KM arthritic; wound healing; diabetes; skeletal muscle cells; obesity;
XX KM Berger disease; nephropathy; Schönlein-Henoch purpura; Coeliac disease;
XX KM dermatitis; herpeticiformis; Crohn's disease; thalassemia.
XX OS Homo sapiens.
XX PN US2003099625-A1.
XX PD 29-MAY-2003.
XX PF 12-DEC-2001; 2001US-00015386.
XX PR 01-SEP-1998; 98US-0098716P.
PR 01-SEP-1998; 98US-0098723P.
PR 01-SEP-1998; 98US-0098749P.
PR 01-SEP-1998; 98US-0098750P.
PR 02-SEP-1998; 98US-0098803P.
PR 02-SEP-1998; 98US-0098823P.
PR 02-SEP-1998; 98US-0098843P.
PR 02-SEP-1998; 98US-0099536P.
PR 09-SEP-1998; 98US-0099558P.
PR 09-SEP-1998; 98US-0099562P.
PR 09-SEP-1998; 98US-0099602P.
PR 09-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099792P.
PR 10-SEP-1998; 98US-0099808P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98US-0099815P.
PR 10-SEP-1998; 98US-0099816P.
PR 13-SEP-1998; 98US-0100388P.
PR 13-SEP-1998; 98US-0100388P.
PR 15-SEP-1998; 98US-0100390P.
PR 16-SEP-1998; 98US-0100584P.
PR 16-SEP-1998; 98US-0100627P.
PR 16-SEP-1998; 98US-0100651P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100710P.
PR 17-SEP-1998; 98US-0100711P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100848P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 18-SEP-1998; 98US-0101071P.
PR 22-SEP-1998; 98US-0101279P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101474P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101476P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101479P.
PR 24-SEP-1998; 98US-0101738P.
PR 24-SEP-1998; 98US-0101741P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101915P.

PR 24-SEP-1998; 98US-0101916P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102307P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102570P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103449P.
PR 07-OCT-1998; 98US-0103314P.
PR 07-OCT-1998; 98US-0103315P.
PR 07-OCT-1998; 98US-0103328P.
PR 07-OCT-1998; 98US-0103395P.
PR 07-OCT-1998; 98US-0103396P.
PR 07-OCT-1998; 98US-0103401P.
PR 08-OCT-1998; 98US-0103633P.
PR 08-OCT-1998; 98US-0103679P.
PR 08-OCT-1998; 98US-0103711P.
PR 14-OCT-1998; 98US-0104257P.
PR 14-OCT-1998; 98US-0104987P.
PR 20-OCT-1998; 98US-0105000P.
PR 20-OCT-1998; 98US-0105002P.
PR 21-OCT-1998; 98US-0105104P.
PR 22-OCT-1998; 98US-0105169P.
PR 22-OCT-1998; 98US-0105265P.
PR 26-OCT-1998; 98US-0105693P.
PR 26-OCT-1998; 98US-0105694P.
PR 27-OCT-1998; 98US-0105807P.
PR 27-OCT-1998; 98US-0105881P.
PR 27-OCT-1998; 98US-0105882P.
PR 27-OCT-1998; 98US-0106062P.
PR 28-OCT-1998; 98US-0106023P.
PR 28-OCT-1998; 98US-0106029P.
PR 28-OCT-1998; 98US-0106030P.
PR 28-OCT-1998; 98US-0106032P.
PR 28-OCT-1998; 98US-0106033P.
PR 28-OCT-1998; 98US-0106178P.
PR 29-OCT-1998; 98US-0106248P.
PR 29-OCT-1998; 98US-0106384P.
PR 29-OCT-1998; 98US-0106500P.
PR 30-OCT-1998; 98US-0106464P.
PR 03-NOV-1998; 98US-0106856P.
PR 03-NOV-1998; 98US-0106902P.
PR 03-NOV-1998; 98US-0106905P.
PR 03-NOV-1998; 98US-0106919P.
PR 03-NOV-1998; 98US-0106932P.
PR 03-NOV-1998; 98US-0106934P.
PR 10-NOV-1998; 98US-0107783P.
PR 10-NOV-1998; 98US-0107783P.
PR 17-NOV-1998; 98US-0108775P.
PR 17-NOV-1998; 98US-0108779P.
PR 17-NOV-1998; 98US-0108787P.
PR 17-NOV-1998; 98US-0108788P.
PR 17-NOV-1998; 98US-0108801P.
PR 17-NOV-1998; 98US-0108802P.
PR 17-NOV-1998; 98US-0108806P.
PR 17-NOV-1998; 98US-0108807P.
PR 17-NOV-1998; 98US-0108867P.
PR 17-NOV-1998; 98US-0108825P.
PR 18-NOV-1998; 98US-0108848P.
PR 18-NOV-1998; 98US-0108849P.
PR 18-NOV-1998; 98US-0108850P.
PR 18-NOV-1998; 98US-0108851P.
PR 18-NOV-1998; 98US-0108852P.
PR 18-NOV-1998; 98US-0108858P.
PR 18-NOV-1998; 98US-0108904P.
PR 22-DEC-1998; 98US-0113296P.

PR 30-DEC-1998; 98US-0114223P.
PR 05-JAN-1999; 99WO-US000106.
PR 16-APR-1999; 99US-0129674P.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 01-SEP-1999; 99WO-US020111.
PR 15-SEP-1999; 99WO-US021194.
PR 29-OCT-1999; 99US-0162506P.
PR 30-NOV-1999; 99WO-US028313.
PR 02-DEC-1999; 99WO-US028551.
PR 16-DEC-1999; 99WO-US030095.
PR 05-JAN-2000; 2000WO-US000219.
PR 06-JAN-2000; 2000WO-US000376.
PR 11-FEB-2000; 2000WO-US003565.
PR 18-FEB-2000; 2000WO-US004342.
PR 24-FEB-2000; 2000WO-US005004.
PR 02-MAR-2000; 2000WO-US005841.
PR 15-MAR-2000; 2000WO-US006884.
PR 17-MAY-2000; 2000WO-US013705.
PR 22-MAY-2000; 2000WO-US014042.
PR 30-MAY-2000; 2000WO-US014941.
PR 02-JUN-2000; 2000WO-US015264.
PR 23-AUG-2000; 2000WO-US023522.
PR 24-AUG-2000; 2000WO-US023328.
PR 08-NOV-2000; 2000WO-US030952.
PR 10-NOV-2000; 2000WO-US030873.
PR 01-DEC-2000; 2000WO-US032678.
PR 28-FEB-2001; 2001WO-US006520.
PR 01-MAR-2001; 2001WO-US006666.
PR 01-JUN-2001; 2001WO-US017800.
PR 20-JUN-2001; 2001WO-US019692.
PR 29-JUN-2001; 2001WO-US021066.
PR 09-JUL-2001; 2001WO-US021735.
PR 04-SEP-2001; 2001US-00946374.

(GETH) GENENTECH INC.

XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S,
PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
PI Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
PI Williams PM, Wood WI;
XX
XX WPI, 2003-974602/81.
DR
DR N-PSDB; ADD70520.

XX
XX
XX Novel isolated PRO polypeptides e.g., PRO1130, PRO1275, PRO1418, PRO1555,
PT PRO1787 affect glucose or free fatty acid (FFA) uptake by skeletal muscle
PT cells and are useful for treating diabetes or hyper- or hypo-insulinemia.
XX
XX Claim 12; SEQ ID NO 6; 533pp; English.
PS
XX

CC The invention relates to an isolated PRO polypeptide (secreted or

Query Match 100.0%; Score 609; DB 7; Length 117;

Best Local Similarity 100.0%; Pred. No. 2e-63; Mismatches 0; Indels 0; Gaps 0;

Matches 117; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MIYFGNAVFLASRLGGLLITLLEHIAHFLGTGAATTGNSCICRDSGTDSDVDVTOO 60
DB 1 MIYFGNAVFLASRLGGLLITLLEHIAHFLGTGAATTGNSCICRDSGTDSDVDVTOO 60
QY 61 QQAENSAVPTACTSOPRDPVPRPRGRGPHPRKKQNVGLVDTLAVIRTLVDK 117
DB 61 QQAENSAVPTACTSOPRDPVPRPRGRGPHPRKKQNVGLVDTLAVIRTLVDK 117

Search completed: April 2, 2004, 09:52:51
Job time : 57 secs

Mon Apr 5 09:54:03 2004

us-10-066-500-8.rnpb

Page 1

GenCore version 5.1.6
Copyright (c) 1993 - 2004 Compugen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 4, 2004; 06:40:17 ; Search time 504 Seconds

(without alignments)
9038.793 Million cell updates/sec

Title: US-10-066-500-8

Perfect score: 1218
Sequence: 1 cccacgcgtccgcgcgcgtg.....agctatgatttattatagag 1218

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 246186 seqs, 1870095128 residues

Total number of hits satisfying chosen parameters: 4932372

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Database : Listing first 45 summaries

Published Applications NA:*

1: /cgn2_6/ptodata/2/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/2/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/2/pubpna/US06_NEW_PUB.seq:*
4: /cgn2_6/ptodata/2/pubpna/US06_PUBCOMB.seq:*
5: /cgn2_6/ptodata/2/pubpna/US07_NEW_PUB.seq:*
6: /cgn2_6/ptodata/2/pubpna/PCTUS_PUBCOMB.seq:*
7: /cgn2_6/ptodata/2/pubpna/US08_NEW_PUB.seq:*
8: /cgn2_6/ptodata/2/pubpna/US08_PUBCOMB.seq:*
9: /cgn2_6/ptodata/2/pubpna/US09A_PUBCOMB.seq:*
10: /cgn2_6/ptodata/2/pubpna/US09B_PUBCOMB.seq:*
11: /cgn2_6/ptodata/2/pubpna/US09C_PUBCOMB.seq:*
12: /cgn2_6/ptodata/2/pubpna/US09D_NEW_PUB.seq:*
13: /cgn2_6/ptodata/2/pubpna/US10A_PUBCOMB.seq:*
14: /cgn2_6/ptodata/2/pubpna/US10B_PUBCOMB.seq:*
15: /cgn2_6/ptodata/2/pubpna/US10C_PUBCOMB.seq:*
16: /cgn2_6/ptodata/2/pubpna/US10D_NEW_PUB.seq:*
17: /cgn2_6/ptodata/2/pubpna/US60_NEW_PUB.seq:*
18: /cgn2_6/ptodata/2/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1218	100.0	1218	10 US-09-946-374-5	Sequence 5, Appl1
2	1218	100.0	1218	12 US-10-081-056-5	Sequence 5, Appl1
3	1218	100.0	1218	13 US-10-066-500-8	Sequence 8, Appl1
4	1218	100.0	1218	14 US-10-002-796-8	Sequence 8, Appl1
5	1218	100.0	1218	14 US-10-066-273-8	Sequence 8, Appl1
6	1218	100.0	1218	14 US-10-066-494-8	Sequence 8, Appl1
7	1218	100.0	1218	14 US-10-066-269-8	Sequence 8, Appl1
8	1218	100.0	1218	14 US-10-066-856A-5	Sequence 5, Appl1
9	1218	100.0	1218	14 US-10-066-211-8	Sequence 5, Appl1
10	1218	100.0	1218	14 US-10-066-193-8	Sequence 8, Appl1
11	1218	100.0	1218	14 US-10-006-818A-5	Sequence 5, Appl1
12	1218	100.0	1218	14 US-10-015-383A-5	Sequence 5, Appl1
13	1218	100.0	1218	14 US-10-015-869A-5	Sequence 5, Appl1
14	1218	100.0	1218	14 US-10-012-121A-5	Sequence 5, Appl1
15	1218	100.0	1218	14 US-10-006-116A-5	Sequence 5, Appl1

ALIGNMENTS

RESULT 1
US-09-946-374-5
Sequence 5, Application US/09946374
GENERAL INFORMATION:
US20030073129A1
APPLICANT: Baker, Kevin P.
APPLICANT: Bolstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Grimaldi, Christopher J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Roy, Margaret Ann
APPLICANT: Smith, Victoria
APPLICANT: Stewart, Timothy A.
APPLICANT: Tumas, Daniel
APPLICANT: Watanabe, Colin K.
APPLICANT: Williams, P. Mickey
APPLICANT: Wood, William I.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
FILE REFERENCE: P2830PCT
CURRENT APPLICATION NUMBER: US/09/946.374
PRIOR FILING DATE: 2001-09-04
PRIOR APPLICATION NUMBER: 60/098716
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098723
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098749
PRIOR FILING DATE: 1998-09-01
PRIOR APPLICATION NUMBER: 60/098750

PRIOR FILING DATE:	1998-10-14
PRIOR APPLICATION NUMBER:	60/104987
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105000
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105002
PRIOR FILING DATE:	1998-10-20
PRIOR APPLICATION NUMBER:	60/105104
PRIOR FILING DATE:	1998-10-21
PRIOR APPLICATION NUMBER:	60/105165
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105266
PRIOR FILING DATE:	1998-10-22
PRIOR APPLICATION NUMBER:	60/105693
PRIOR FILING DATE:	1998-10-26
PRIOR APPLICATION NUMBER:	60/105694
PRIOR FILING DATE:	1998-10-26
PRIOR APPLICATION NUMBER:	60/105807

Query Match	100.0%;	Score 1218;	DB 10;	Length 1218;
Best Local Similarity	100.0%;	Pred. No. 0;		
Matches 1218;	Conservative 0;	Mismatches 0;	Indels 0;	Gaps 0

Qy	1	CCGACGCGTCGGGCGCGCGGCGCTCTGAGCGTCATCTTGGCTTCTCGGACTCTGACATCA	60
Db	1	CCGACGCGTCGGGCGCGCGCGCTCTGAGCGTCATCTTGGCTTCTCGGACTCTGACATCA	60
Qy	61	AAGAGTCGCGCGCGCGCGCGCGCCCTCTCCCTCGGTGGCGCCGCGAGGTAGAGAAAT	120
Db	61	AAGAGTCGCGCGCGCGCGCGCGCCCTCTCCCTCGGTGGCGCGCGAGGTAGAGAAAT	120
Qy	121	CAATGCCACAGCCCAACCGCGCTGCTCTGAGCCCTCTGGGCAACGCGGAAACGGGAGGAGTCT	180
Db	121	CAATGCCACAGCCCAACCGCGCTGCTCTGAGCCCTCTGGGCAACGCGGAAACGGGAGGAGTCT	180
Qy	181	GAGGGTTGGGAGAGTCTGTGAGAGGAGGAGAAACAGCCGCTCGAGCCTGGGCGGGCGGAC	240
Db	181	GAGGGTTGGGAGAGTCTGTGAGAGGAGGAGAAACAGCCGCTCGAGCCTGGGCGGGCGGAC	240
Qy	241	GAGCTGGGCGCGGCGGTAGGCTCTGGAAAAGCGCCGGGAGAGAGGTGGCTGTGACAAAC	300
Db	241	GAGCTGGGCGCGGCGGTAGGCTCTGGAAAAGCGCCGGGAGAGAGGTGGCTGTGACAAAC	300
Qy	301	CTGAGAAACAGCCGAGAGGTTTTCCACGAGGCCCGCGCTTGAGGAACTGAAAGAGGTTG	360
Db	301	CTGAGAAACAGCCGAGAGGTTTTCCACGAGGCCCGCGCTTGAGGAACTGAAAGAGGTTG	360
Qy	361	CTAGAAGAGGGTTTCCCTTTTCGGGGGCTCTCACAGAAAGAGTTCTTGGGGGTGCGC	420
Db	361	CTAGAAGAGGGTTTCCCTTTTCGGGGGCTCTCACAGAAAGAGTTCTTGGGGGTGCGC	420
Qy	421	CTTCTGAGAGGCTGCGGCTAACAGGGGCCCAAGATGCGCATTGATGTCAGAAATCCCTC	480
Db	421	CTTCTGAGAGGCTGCGGCTAACAGGGGCCCAAGATGCGCATTGATGTCAGAAATCCCTC	480
Qy	481	GTAAGTGAATATGTTGGGAAATAAGCTCTGCAACTTCTTGGCAATTCAAGTTTAAAAAC	540
Db	481	GTAAGTGAATATGTTGGGAAATAAGCTCTGCAACTTCTTGGCAATTCAAGTTTAAAAAC	540
Qy	541	AAATAGGATGCAAAATTCCTCAACTCCAGGTTTGAAGAAACAGTACTTGGAAAAC	600
Db	541	AAATAGGATGCAAAATTCCTCAACTCCAGGTTTGAAGAAACAGTACTTGGAAAAC	600
Qy	601	TACTTAAATATATGCTCTTGGTTGGGCGGTGTTCTTAAGAGCAAGAAAGCTTGGCCAGGG	660
Db	601	TACTTAAATATATGCTCTTGGTTGGGCGGTGTTCTTAAGAGCAAGAAAGCTTGGCCAGGG	660
Qy	661	TCTGTTGTGACTCTCGAAGAGCACATAGCCCACTTCTAGGACTGAGAGTGGCGGTAC	720
Db	661	TCTGTTGTGACTCTCGAAGAGCACATAGCCCACTTCTAGGACTGAGAGTGGCGGTAC	720
Qy	721	TACCATGGGTAAATTCCTGTATCTGCCGAGATGACAGTGAACAGATGACATGTTTGAAC	780

D8	721	TACATAGGATTCCTCTGTATCTGCCGAGATGACAGTGGAAACAATATGACAGTGTGACAC	780
QY	781	CCAAACAGCAACGAGCCGAGAAACAGTGCATGACCACTGCTGACACAGAGACCCAAACAGC	840
D8	781	CCAAACAGCAACGAGCCGAGAAACAATGCAATGCCACTGCTGACACAAGAGACCCAAACACG	840
QY	841	GGAACCCCTGTTGGGCGCAACCAAGGAGGAGGCGCAGACCTCATATAGCAGCAAGAGAAAGAAACA	900
D8	841	GGAACCCCTGTTGGGCGCACCAAGGAGGAGGCGCAGACCTCATATAGCAGCAAGAGAAAGAAACA	900
QY	901	AAATGTGATGGGCTAGTGTGGACACACTGGCGATTAATACGAACTCTTGTATGATTAAGTA	960
D8	901	AAATGTGATGGGCTAGTGTGGACACACTGGCGATTAATACGAACTCTTGTATGATTAAGTA	960
QY	961	AGATCTGACACACGGTCACTCCAGTGGAAATGAAAAGTGTCTGACCCGGAACCATGACT	1020
D8	961	AGATCTGACACACGGTCACTCCAGTGGAAATGAAAAGTGTCTGACCCGGAACCATGACT	1020
QY	1021	TTAGACCTCCTTCAAGTTCCTTTAGGACATACCTCCGCAACGCTTGTGCTCACAGGGCAAG	1080
D8	1021	TTAGACCTCCTTCAAGTTCCTTTAGGACATACCTCCGCAACGCTTGTGCTCACAGGGCAAG	1080
QY	1081	GAGAAATATTTAAAGTCGCCGCTGATGGACAGATAATGATAGATTTGATGTTTTCCTT	1140
D8	1081	GAGAAATATTTAAAGTCGCCGCTGATGGACAGATAATGATAGATTTGATGTTTTCCTT	1140
QY	1141	GCTGTCATCTACTTGTCTGGAATAATGTTCTGTAGCAGAAAACACGATTAAG	1200
D8	1141	GCTGTCATCTACTTGTCTGGAATAATGTTCTGTAGCAGAAAACACGATTAAG	1200
QY	1201	CTATGATCTTTATTAAG	1218
D8	1201	CTATGATCTTTATTAAG	1218

RESULT 2
US-10-081-056-5
Sequence 5, Application US/10081056
Publication No. US20040043927A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Ferrara, Napoleone
APPLICANT: Gerber, Hanspeter
APPLICANT: Gerritsen, Mary E.
APPLICANT: Goddard, Audrey
APPLICANT: Godowski, Paul J.
APPLICANT: Gurney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Marsters, Scott A.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
APPLICANT: Stephan, Jean-Philippe F.
APPLICANT: Watanabe, Colin K.
APPLICANT: Wood, William I.
APPLICANT: Williams, P. Mickey
APPLICANT: Ye, William
TITLE OF INVENTION: COMPOSITIONS AND METHODS FOR THE DIAGNOSIS AND
TITL OF INVENTION: TREATMENT OF DISORDERS INVOLVING ANGIOGENESIS
FILE REFERENCE: P3235P1C1
CURRENT APPLICATION NUMBER: US/10/081,056
CURRENT FILING DATE: 2002-02-20
PRIOR APPLICATION NUMBER: PCT/US01/21735
PRIOR FILING DATE: 2001-07-09
PRIOR APPLICATION NUMBER: US 60/219,556
PRIOR FILING DATE: 2000-07-20
PRIOR APPLICATION NUMBER: US 60/220,624
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: US 60/220,664
PRIOR FILING DATE: 2000-07-25
PRIOR APPLICATION NUMBER: PCT/US00/20710
PRIOR FILING DATE: 2000-07-28
PRIOR APPLICATION NUMBER: US 60/222,695
PRIOR FILING DATE: 2000-08-02


```

1 PRIOR APPLICATION NUMBER: US 09/663,657
2 PRIOR FILING DATE: 2000-08-17
3 PRIOR APPLICATION NUMBER: PCT/US00/23522
4 PRIOR FILING DATE: 2000-08-23
5 PRIOR APPLICATION NUMBER: PCT/US00/23328
6 PRIOR FILING DATE: 2000-08-24
7 PRIOR APPLICATION NUMBER: US 60/230,978
8 PRIOR FILING DATE: 2000-09-07
9 PRIOR APPLICATION NUMBER: US 60/000,000
10 PRIOR FILING DATE: 2000-09-15
11 PRIOR APPLICATION NUMBER: US 09/664,610
12 PRIOR FILING DATE: 2000-09-18
13 PRIOR APPLICATION NUMBER: US 09/665,350
14 PRIOR FILING DATE: 2000-09-18
15 PRIOR APPLICATION NUMBER: US 60/242,922
16 PRIOR FILING DATE: 2000-10-24
17 PRIOR APPLICATION NUMBER: US 09/709,238
18 PRIOR FILING DATE: 2000-11-08
19 PRIOR APPLICATION NUMBER: PCT/US00/30952
20 PRIOR FILING DATE: 2000-11-08
21 PRIOR APPLICATION NUMBER: PCT/US00/30873
22 PRIOR FILING DATE: 2000-11-10
23 PRIOR APPLICATION NUMBER: PCT/US00/32678
24 PRIOR FILING DATE: 2000-12-01
25 PRIOR APPLICATION NUMBER: US 09/747,259
26 PRIOR FILING DATE: 2000-12-20
27 PRIOR APPLICATION NUMBER: PCT/US00/34956
28 PRIOR FILING DATE: 2000-12-20
29 PRIOR APPLICATION NUMBER: US 09/767,609
30 PRIOR FILING DATE: 2001-01-22
31 PRIOR APPLICATION NUMBER: US 09/796,498
32 PRIOR FILING DATE: 2001-02-28
33 PRIOR APPLICATION NUMBER: PCT/US01/06520
34 PRIOR FILING DATE: 2001-02-28
35 PRIOR APPLICATION NUMBER: PCT/US01/06566
36 PRIOR FILING DATE: 2001-03-01
37 PRIOR APPLICATION NUMBER: PCT/US01/06666
38 PRIOR FILING DATE: 2001-03-01
39 PRIOR APPLICATION NUMBER: US 09/802,706
40 PRIOR FILING DATE: 2001-03-09
41 PRIOR APPLICATION NUMBER: US 09/808,689
42 PRIOR FILING DATE: 2001-03-14
43 PRIOR APPLICATION NUMBER: US 09/816,744
44 PRIOR FILING DATE: 2001-03-22
45 PRIOR APPLICATION NUMBER: US 09/828,366
46 PRIOR FILING DATE: 2001-04-05
47 PRIOR APPLICATION NUMBER: US 09/854,208
48 PRIOR FILING DATE: 2001-05-10
49 PRIOR APPLICATION NUMBER: US 09/854,280
50 PRIOR FILING DATE: 2001-05-10
51 PRIOR APPLICATION NUMBER: US 09/866,028
52 PRIOR FILING DATE: 2001-05-25
53 PRIOR APPLICATION NUMBER: US 09/866,034
54 PRIOR FILING DATE: 2001-05-25
55 PRIOR APPLICATION NUMBER: PCT/US01/17092
56 PRIOR FILING DATE: 2001-05-25
57 PRIOR APPLICATION NUMBER: US 09/870,574
58 PRIOR FILING DATE: 2001-05-20
59 PRIOR APPLICATION NUMBER: PCT/US01/17443
60 PRIOR FILING DATE: 2001-05-20
61 PRIOR APPLICATION NUMBER: PCT/US01/17800
62 PRIOR FILING DATE: 2001-06-01
63 PRIOR APPLICATION NUMBER: PCT/US01/19692
64 PRIOR FILING DATE: 2001-06-20
65 PRIOR APPLICATION NUMBER: PCT/US01/00000
66 PRIOR FILING DATE: 2001-06-28
67
68 NUMBER OF SEQ ID NOS: 383
69
70 SEQ ID NO: 5
71
72 LENGTH: 1218
73
74 TYPE: DNA
75 ORGANISM: Homosapiens
76
77 US-10-081-056-5

```

Query Match	100.0%;	Score 1216;	DB 12;	Length 1218;
Best Local Similarity	100.0%;	Pred. No. 0;		

	Matches	1218;	Conservative	0;	Mismatches	0;	Indels	0;	Gaps	0;
QY	1	CCCA	CGGCTCCGGCGCGCGCTGAGCTTCCGGTGCATCTTTGCCGTCTCTCGGACCTGTCACA	60						
Db	1	CCCA	CGGCTCCGGCGCGCGCTGAGCTTCCGGTGCATCTTTGCCGTCTCTCGGACCTGTCACA	60						
QY	61	AAGA	GTCCGCGCGCGCGCGCGCGCGCTTCCCTCCGCTGGAGCCCGGAGAGTAGAAGAAAGT	120						
Db	61	AAGA	GTCCGCGCGCGCGCGCGCGCGCTTCCCTCCGCTGGAGCCCGGAGAGTAGAAGAAAGT	120						
QY	121	CAGT	GCACACGCCCGGACCCGCGCTGCTTGTAGACCTTGGGACCGGGGAAACGGGAGAGGAGTCT	180						
Db	121	CAGT	GCACACGCCCGGACCCGCGCTGCTTGTAGACCTTGGGACCGGGGAAACGGGAGAGGAGTCT	180						
QY	181	GAGG	GTGGGAGCGTCTGTGAGGAGGAGGAAACAGCCGCTCGAGCTTGGGCGGGCGGACC	240						
Db	181	GAGG	GTGGGAGCGTCTGTGAGGAGGAGGAAACAGCCGCTCGAGCTTGGGCGGGCGGACC	240						
QY	241	GGAT	CGGGGCGCGGGGTAGGCTTCTGGAAAGGGCCCGGAGAGAGGTGGCGTTGGTCAGAAC	300						
Db	241	GGAT	CGGGGCGCGGGGTAGGCTTCTGGAAAGGGCCCGGAGAGAGGTGGCGTTGGTCAGAAC	300						
QY	301	CTGA	GAACACAGCCGAGAGGTTTTCCACCAGAGCCCGCGCTTGAGAGATCTGAAGAGTTCC	360						
Db	301	CTGA	GAACACAGCCGAGAGGTTTTCCACCAGAGCCCGCGCTTGAGAGATCTGAAGAGTTCC	360						
QY	361	CTAA	AGAGGATGTTCCCTCTTTCCGGGGGTCCTCACAGAGAGAGGTCTTGCGGGGCTGGCC	420						
Db	361	CTAA	AGAGGATGTTCCCTCTTTCCGGGGGTCCTCACAGAGAGAGGTCTTGCGGGGCTGGCC	420						
QY	421	CTTC	TGAGAGGCTCGGCTAACAGAGGCCCAAGACTGCAATTGGATGTCCAGAAATCCCT	480						
Db	421	CTTC	TGAGAGGCTCGGCTAACAGAGGCCCAAGACTGCAATTGGATGTCCAGAAATCCCT	480						
QY	481	GTA	CTTATATATGTTGGGAAATTAAGCTGTGCAACTTTCTTGGCAATTCAGTGTATAAAC	540						
Db	481	GTA	CTTATATATGTTGGGAAATTAAGCTGTGCAACTTTCTTGGCAATTCAGTGTATAAAC	540						
QY	541	AAAT	AGATGCAAAATTCCTCACTCCAGGTTATGAAACAGATCTTGGAAACCTGAAAC	600						
Db	541	AAAT	AGATGCAAAATTCCTCACTCCAGGTTATGAAACAGATCTTGGAAACCTGAAAC	600						
QY	601	TAC	CTAATATATGATCGCTTTGGTGGGCGAGTCTCTTAGCGAGCAAGACCTTGGCCAGG	660						
Db	601	TAC	CTAATATATGATCGCTTTGGTGGGCGAGTCTCTTAGCGAGCAAGACCTTGGCCAGG	660						
QY	661	TCT	GTTGTGTACTCGAAGAGCATATAGCCCACTTCTAGGAGCTGAGGTTGCCGTAC	720						
Db	661	TCT	GTTGTGTACTCGAAGAGCATATAGCCCACTTCTAGGAGCTGAGGTTGCCGTAC	720						
QY	721	TAC	ATGGGTAATTCGTATCTGCGAGATGACAGTGGAAACATGACATGTTTGAAC	780						
Db	721	TAC	ATGGGTAATTCGTATCTGCGAGATGACAGTGGAAACATGACATGTTTGAAC	780						
QY	781	CCA	ACAGCAAGCCGAGAACAGTGCATGCCACTGCTACACACAGAGACCACACG	840						
Db	781	CCA	ACAGCAAGCCGAGAACAGTGCATGCCACTGCTACACACAGAGACCACACG	840						
QY	841	GGAC	CGCTTTCGGGCAACAGAGAGGGCCGAGACTCTCATAGGCCAAGAGAAAGAAACA	900						
Db	841	GGAC	CGCTTTCGGGCAACAGAGAGGGCCGAGACTCTCATAGGCCAAGAGAAAGAAACA	900						
QY	901	AAAT	TGATGGGCTAGTGTGGACACACTGGCAGTAAATAGGACTCTTGATGATTAATA	960						
Db	901	AAAT	TGATGGGCTAGTGTGGACACACTGGCAGTAAATAGGACTCTTGATGATTAATA	960						
QY	961	AGAT	CTGATCACGGTACCTCCAGTGGATGAAAAGTGTCTGCCCGGAAACCATGACT	1020						
Db	961	AGAT	CTGATCACGGTACCTCCAGTGGATGAAAAGTGTCTGCCCGGAAACCATGACT	1020						
QY	1021	TTAG	ACTCTTCAGTCTCTTATAGACAATATCCGCAAGCCTTGAGTCACAGGGCAAG	1080						
Db	1021	TTAG	ACTCTCTTCAGTCTCTTATAGACAATATCCGCAAGCCTTGAGTCACAGGGCAAG	1080						

QY 1081 GAGAAATTTTAAATGCTCCGCTGATGCGACAGTAAATGATGATTGTTTGGCTT 1140
 Db 1081 GAGAAATTTTAAATGCTCCGCTGATGCGACAGTAAATGATGATTGTTTGGCTT 1140
 QY 1141 GCTGCTACTACTTGTCTGGAATGCTAAATGTTCTGTAGCAGAAAACAGATAAG 1200
 Db 1141 GCTGCTACTACTTGTCTGGAATGCTAAATGTTCTGTAGCAGAAAACAGATAAG 1200
 QY 1201 CTATGATCTTTATTAGAG 1218
 Db 1201 CTATGATCTTTATTAGAG 1218

RESULT 3
 US-10-066-500-8
 Sequence 8, Application US/10066500
 Publication No. US20020177165A1
 GENERAL INFORMATION:
 APPLICANT: Avi J. Ashkenazi
 APPLICANT: Kevin P. Baker
 APPLICANT: David A. Botstein
 APPLICANT: Luc Desnoyers
 APPLICANT: Dan L. Eaton
 APPLICANT: Napoleone Ferrara
 APPLICANT: Sherman Fong
 APPLICANT: Wei-Qiang Gao
 APPLICANT: Hanspeter Geisler
 APPLICANT: Mary E. Gerltsen
 APPLICANT: Audrey Goddard
 APPLICANT: Paul J. Godowski
 APPLICANT: Austin L. Gurney
 APPLICANT: Ivar J. Kjaevan
 APPLICANT: Jennie P. Maheer
 APPLICANT: Mary A. Napier
 APPLICANT: James Pan
 APPLICANT: Nicholas F. Paoni
 APPLICANT: Margaret Ann Roy
 APPLICANT: Timothy A. Stewart
 APPLICANT: Daniel Tumas
 APPLICANT: Colin K. Watanabe
 APPLICANT: P. Mickey Williams
 APPLICANT: William I. Wood
 APPLICANT: Zemin Zang
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3130R1C7
 CURRENT APPLICATION NUMBER: US/10/066,500
 CURRENT FILING DATE: 2002-02-01
 PRIOR APPLICATION NUMBER: 10/002,796
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063082
 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
 PRIOR APPLICATION NUMBER: 60/063733
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 60/066364
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25

PRIOR APPLICATION NUMBER: 60/069694
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998
 PRIOR FILING DATE: 1998-08-10
 PRIOR APPLICATION NUMBER: 60/097000
 PRIOR FILING DATE: 1998-08-18
 PRIOR APPLICATION NUMBER: 60/099601
 PRIOR FILING DATE: 1998-09-09
 PRIOR APPLICATION NUMBER: 60/099803
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099811
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099812
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/100858
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/101922
 PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/106032
 PRIOR FILING DATE: 1998-10-28
 PRIOR APPLICATION NUMBER: 60/109304
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: 60/125778
 PRIOR FILING DATE: 1999-03-23
 PRIOR APPLICATION NUMBER: 60/139695
 PRIOR FILING DATE: 1999-06-15
 PRIOR APPLICATION NUMBER: 60/145070
 PRIOR FILING DATE: 1999-07-20
 PRIOR APPLICATION NUMBER: 60/145698
 PRIOR FILING DATE: 1999-07-26
 PRIOR APPLICATION NUMBER: 60/149396
 PRIOR FILING DATE: 1999-08-17
 PRIOR APPLICATION NUMBER: 60/169495
 PRIOR FILING DATE: 1999-12-07
 PRIOR APPLICATION NUMBER: 08/918874
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 08/933821
 PRIOR FILING DATE: 1997-09-19
 PRIOR APPLICATION NUMBER: 08/960507
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 09/114844
 PRIOR FILING DATE: 1998-07-14
 PRIOR APPLICATION NUMBER: 09/136801
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136804
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136828
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/158342
 PRIOR FILING DATE: 1998-09-21
 PRIOR APPLICATION NUMBER: 09/180997
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/202088
 PRIOR FILING DATE: 1998-12-08
 PRIOR APPLICATION NUMBER: 09/254311
 PRIOR FILING DATE: 1999-03-03
 PRIOR APPLICATION NUMBER: 09/254460
 PRIOR FILING DATE: 1999-03-09
 PRIOR APPLICATION NUMBER: 09/254465
 PRIOR FILING DATE: 1999-03-05
 PRIOR APPLICATION NUMBER: 09/284663
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 09/332928
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/332929

1	PRIOR FILING DATE: 1999-06-14	NUMBER: 09/333075
2	PRIOR APPLICATION NUMBER: 09/333075	
3	PRIOR FILING DATE: 1999-06-14	
4	PRIOR APPLICATION NUMBER: 09/333077	
5	PRIOR FILING DATE: 1999-06-14	
6	PRIOR APPLICATION NUMBER: 09/380137	
7	PRIOR FILING DATE: 1999-08-25	
8	PRIOR APPLICATION NUMBER: 09/380138	
9	PRIOR FILING DATE: 1999-08-25	
10	PRIOR APPLICATION NUMBER: 09/380139	
11	PRIOR FILING DATE: 1999-08-25	
12	PRIOR APPLICATION NUMBER: 09/403266	
13	PRIOR FILING DATE: 1999-10-18	
14	PRIOR APPLICATION NUMBER: 09/403267	
15	PRIOR FILING DATE: 1999-10-18	
16	PRIOR APPLICATION NUMBER: 09/423741	
17	PRIOR FILING DATE: 1999-11-10	
18	PRIOR APPLICATION NUMBER: 09/423844	
19	PRIOR FILING DATE: 1999-11-12	
20	PRIOR APPLICATION NUMBER: 09/522342	
21	PRIOR FILING DATE: 2000-03-09	
22	PRIOR APPLICATION NUMBER: 09/548815	
23	PRIOR FILING DATE: 2000-04-13	
24	PRIOR APPLICATION NUMBER: 09/664610	
25	PRIOR FILING DATE: 2000-09-18	
26	PRIOR APPLICATION NUMBER: 09/665350	
27	PRIOR FILING DATE: 2000-09-18	
28	PRIOR APPLICATION NUMBER: 09/709238	
29	PRIOR FILING DATE: 2000-11-08	
30	PRIOR APPLICATION NUMBER: 09/767609	
31	PRIOR FILING DATE: 2001-01-22	
32	PRIOR APPLICATION NUMBER: 09/802706	
33	PRIOR FILING DATE: 2001-03-09	
34	PRIOR APPLICATION NUMBER: 09/808689	
35	PRIOR FILING DATE: 2001-03-14	
36	PRIOR APPLICATION NUMBER: 09/866028	
37	PRIOR FILING DATE: 2001-05-25	
38	PRIOR APPLICATION NUMBER: 09/870574	
39	PRIOR FILING DATE: 2001-05-30	
40	PRIOR APPLICATION NUMBER: 09/872035	
41	PRIOR FILING DATE: 2001-06-01	
42	PRIOR APPLICATION NUMBER: 09/886342	
43	PRIOR FILING DATE: 2001-06-19	
44	PRIOR APPLICATION NUMBER: PCT/US98/14552	
45	PRIOR FILING DATE: 1998-07-14	
46	PRIOR APPLICATION NUMBER: PCT/US98/18824	
47	PRIOR FILING DATE: 1998-09-10	
48	PRIOR APPLICATION NUMBER: PCT/US98/19093	
49	PRIOR FILING DATE: 1998-09-14	
50	PRIOR APPLICATION NUMBER: PCT/US98/19330	
51	PRIOR FILING DATE: 1998-09-16	
52	PRIOR APPLICATION NUMBER: PCT/US98/19437	
53	PRIOR FILING DATE: 1998-09-17	
54	PRIOR APPLICATION NUMBER: PCT/US98/24855	
55	PRIOR FILING DATE: 1998-11-20	
56	PRIOR APPLICATION NUMBER: PCT/US98/25108	
57	PRIOR FILING DATE: 1998-12-01	
58	PRIOR APPLICATION NUMBER: PCT/US98/25190	
59	PRIOR FILING DATE: 1998-11-25	
60	PRIOR APPLICATION NUMBER: PCT/US99/05028	
61	PRIOR FILING DATE: 1999-03-08	
62	PRIOR APPLICATION NUMBER: PCT/US99/12252	
63	PRIOR FILING DATE: 1999-06-02	
64	PRIOR APPLICATION NUMBER: PCT/US99/20111	
65	PRIOR FILING DATE: 1999-09-01	
66	PRIOR APPLICATION NUMBER: PCT/US99/20594	
67	PRIOR FILING DATE: 1999-09-08	
68	PRIOR APPLICATION NUMBER: PCT/US99/21090	
69	PRIOR FILING DATE: 1999-09-15	
70	PRIOR APPLICATION NUMBER: PCT/US99/21547	

Query Match	100.0%;	Score 1218;	DB 13;	Length 1218;
Best Local Similarity	100.0%;	Pred. No. 0;		

	Matches	1218: Conservative	0: Mismatches	0: Indels	0: Gaps	0:
QY	1	CCNAGCGTCCGAGCGCCGCTGAGCTCGCGTCAATCTTTGCCGTTCTCTCGGACCTGTAC	60			
Db	1	CCCAAGCGGTCCGAGCGCGGTGCGCTCGCGTCCATCTTTGCCGTTCTCTCGGACCTGTACA	60			
QY	61	AAGAGTCCGAGCGCGCGCGCGCGCGCCCTCCCTCCCTCCGCTGGAGCCCGGAGAGT	120			
Db	61	AAGAGTCCGAGCGCGCGCGCGCGCGCCCTCCCTCCCTCCGCTGGAGCCCGGAGAGT	120			
QY	121	CAGTGCACACAGCCCGGACCGCTGCTCTGAGCCCTGSGCAAGCGGAACGAGGAGTCT	180			
Db	121	CAGTGCACACAGCCCGGACCGCGCTGCTCTGAGCCCTGSGGCAAGCGGAACGAGGAGTCT	180			
QY	181	GAGGTTGGGGAAGCTCTGTAGAGGAGGAGAACAGCCGCTGAGGCTGAGGGGCGGCGGACC	240			
Db	181	GAGGTTGGGGAAGCTCTGTAGAGGAGGAGAACAGCCGCTGAGGCTGAGGGGCGGCGGACC	240			
QY	241	GAGCTGGGCGCGGGGTAGGCTCTGTAGAAAGGAGCCCGGAGAGAGGTGAGCTTGTACAGAAC	300			
Db	241	GAGCTGGGCGCGGGGTAGGCTCTGTAGAAAGGAGCCCGGAGAGAGGTGAGCTTGTACAGAAC	300			
QY	301	CTGAGAAACAGCCCGAGAGGTTTTCACCCGAGGCGCGGCTTGAGAGATCTGAAGAAGTTC	360			
Db	301	CTGAGAAACAGCCCGAGAGGTTTTCACCCGAGGCGCGGCTTGAGAGATCTGAAGAAGTTC	360			
QY	361	CTAGAAAGGGGTGTTCCTCTTTGGGGGCTCTCACAGAAAGAGTTCTTGSGGGTGC	420			
Db	361	CTAGAAAGGGGTGTTCCTCTTTGGGGGCTCTCACAGAAAGAGTTCTTGSGGGTGC	420			
QY	421	CTTCTGAGAGAGCTGCGGCTAACAGGGCCAGAACTGGCATTTGATGTCCGAAATCCCTT	480			
Db	421	CTTCTGAGAGAGCTGCGGCTAACAGGGCCAGAACTGGCATTTGATGTCCGAAATCCCTT	480			
QY	481	GTAAGTGAATATGTTGGGAATAGCTCGCAACTTTCTTGGAATCATGTGTATAAATC	540			
Db	481	GTAAGTGAATATGTTGGGAATAGCTCGCAACTTTCTTGGAATCATGTGTATAAATC	540			
QY	541	AAATGAGTGCATAATCTCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAATCTGAAAAC	600			
Db	541	AAATGAGTGCATAATCTCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAATCTGAAAAC	600			
QY	601	TACCTAAATGATCGCTCTTTGGTGGGCGGTGTCTTAGCGAGAGAAACCTTGGCAGAG	660			
Db	601	TACCTAAATGATCGCTCTTTGGTGGGCGGTGTCTTAGCGAGAGAAACCTTGGCAGAG	660			
QY	661	TCTGTGTGGACTCTCGAAGAGCAATAGCCCACTTCTTAGGGAATGAGAGTCCGCTAC	720			
Db	661	TCTGTGTGGACTCTCGAAGAGCAATAGCCCACTTCTTAGGGAATGAGAGTCCGCTAC	720			
QY	721	TACCATGGGTAATTCCTGTATCTGCGGAGATGACATGTGGAACAGATGACATGTGTGAAC	780			
Db	721	TACCATGGGTAATTCCTGTATCTGCGGAGATGACATGTGGAACAGATGACATGTGTGAAC	780			
QY	781	CCAAAGGACAAGGCGCGGAGAACAGTGCAGTACCCACTCTGACACAAAGAGCCACACG	840			
Db	781	CCAAAGGACAAGGCGCGGAGAACAGTGCAGTACCCACTCTGACACAAAGAGCCACACG	840			
QY	841	GGACCCCTGTTGGCCACCAAGAGGGGCTCGAGAGCTTCATGAGCCAAAGAGAAAGAAC	900			
Db	841	GGACCCCTGTTGGCCACCAAGAGGGGCTCGAGAGCTTCATGAGCCAAAGAGAAAGAAC	900			
QY	901	AAATGAGATGGGCTAGTGTGGAACACACTGGCAGTAATACGACCTCTGTGTGATTAAGTA	960			
Db	901	AAATGAGATGGGCTAGTGTGGAACACACTGGCAGTAATACGACCTCTGTGTGATTAAGTA	960			
QY	961	AGTATCTGACTACGCGTCACTCCAGTGAATGAAAAGTGTTCGCGGAAACATGACT	1020			
Db	961	AGTATCTGACTACGCGTCACTCCAGTGAATGAAAAGTGTTCGCGGAAACATGACT	1020			
QY	1021	TTAGGACTCCTTCAGTCTCTTTAGGACATATCTCGGCAAGCCCTTGCTCAGCGGCAAG	1080			
Db	1021	TTAGGACTCCTTCAGTCTCTTTAGGACATATCTCGGCAAGCCCTTGCTCAGCGGCAAG	1080			

Qy 1081 GAGATATTTTAAATGCTCCGTCATGCGACAGTAATAAGATTGATGTTTGGCTT 1140
 Db 1081 GAAATATTTTAAATGCTCCGTCATGCGACAGTAATAAGATTGATGTTTGGCTT 1140
 Qy 1141 GCGTCACTCACTTTTGTCTGGAAATGCTTAAATGTTTGTGTGCAAGAAACGATTAAG 1200
 Db 1141 GCGTCACTCACTTTTGTCTGGAAATGCTTAAATGTTTGTGTGCAAGAAACGATTAAG 1200
 Qy 1201 CTATGATCTTTATTAGG 1218
 Db 1201 CTATGATCTTTATTAGG 1218

RESULT 4
 US-10-002-796-8
 ; Sequence 8, Application US/10002796
 ; Publication No: US2003002057A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Avi J. Ashkenazi
 ; APPLICANT: Kevin P. Baker
 ; APPLICANT: David A. Botstein
 ; APPLICANT: Luc Desnoyers
 ; APPLICANT: Dan L. Eaton
 ; APPLICANT: Napoleone Ferrara
 ; APPLICANT: Sherman Fong
 ; APPLICANT: Wei-Qiang Gao
 ; APPLICANT: Hanspeter Gerber
 ; APPLICANT: Mary E. Gerltsen
 ; APPLICANT: Audrey Goddard
 ; APPLICANT: Paul J. Godowski
 ; APPLICANT: Austin L. Gurney
 ; APPLICANT: Ivar J. Kljavin
 ; APPLICANT: Jennie P. Mather
 ; APPLICANT: Mary A. Napier
 ; APPLICANT: James Pan
 ; APPLICANT: Nicholas F. Paoni
 ; APPLICANT: Margaret Ann Roy
 ; APPLICANT: Timothy A. Stewart
 ; APPLICANT: Daniel Tumas
 ; APPLICANT: Colin K. Matnabe
 ; APPLICANT: P. Mickey Williams
 ; APPLICANT: William I. Wood
 ; APPLICANT: Zemin Zang
 ; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 ; FILE REFERENCE: P313091C1
 ; CURRENT FILING DATE: 2001-11-15 19974
 ; PRIOR APPLICATION NUMBER: 60/056974
 ; PRIOR FILING DATE: 1997-08-26
 ; PRIOR APPLICATION NUMBER: 60/059115
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/059263
 ; PRIOR FILING DATE: 1997-09-18
 ; PRIOR APPLICATION NUMBER: 60/059588
 ; PRIOR FILING DATE: 1997-09-17
 ; PRIOR APPLICATION NUMBER: 60/062285
 ; PRIOR FILING DATE: 1997-10-17
 ; PRIOR APPLICATION NUMBER: 60/062816
 ; PRIOR FILING DATE: 1997-10-24
 ; PRIOR APPLICATION NUMBER: 60/063082
 ; PRIOR FILING DATE: 1997-10-31
 ; PRIOR APPLICATION NUMBER: 60/063329
 ; PRIOR FILING DATE: 1997-10-27
 ; PRIOR APPLICATION NUMBER: 60/063733
 ; PRIOR FILING DATE: 1997-10-29
 ; PRIOR APPLICATION NUMBER: 60/066364
 ; PRIOR FILING DATE: 1997-11-21
 ; PRIOR APPLICATION NUMBER: 60/066840
 ; PRIOR FILING DATE: 1997-11-25
 ; PRIOR APPLICATION NUMBER: 60/069694
 ; PRIOR FILING DATE: 1997-12-16

;; PRIOR APPLICATION NUMBER: 60/074086
 ;; PRIOR FILING DATE: 1998-02-09
 ;; PRIOR APPLICATION NUMBER: 60/074092
 ;; PRIOR FILING DATE: 1998-02-09
 ;; PRIOR APPLICATION NUMBER: 60/079294
 ;; PRIOR FILING DATE: 1998-03-25
 ;; PRIOR APPLICATION NUMBER: 60/081049
 ;; PRIOR FILING DATE: 1998-04-08
 ;; PRIOR APPLICATION NUMBER: 60/095998
 ;; PRIOR FILING DATE: 1998-08-10
 ;; PRIOR APPLICATION NUMBER: 60/097000
 ;; PRIOR FILING DATE: 1998-08-18
 ;; PRIOR APPLICATION NUMBER: 60/099601
 ;; PRIOR FILING DATE: 1998-09-09
 ;; PRIOR APPLICATION NUMBER: 60/099803
 ;; PRIOR FILING DATE: 1998-09-10
 ;; PRIOR APPLICATION NUMBER: 60/099811
 ;; PRIOR FILING DATE: 1998-09-10
 ;; PRIOR APPLICATION NUMBER: 60/099812
 ;; PRIOR FILING DATE: 1998-09-10
 ;; PRIOR APPLICATION NUMBER: 60/100858
 ;; PRIOR FILING DATE: 1998-09-17
 ;; PRIOR APPLICATION NUMBER: 60/101922
 ;; PRIOR FILING DATE: 1998-09-24
 ;; PRIOR APPLICATION NUMBER: 60/106032
 ;; PRIOR FILING DATE: 1998-10-28
 ;; PRIOR APPLICATION NUMBER: 60/109304
 ;; PRIOR FILING DATE: 1998-11-20
 ;; PRIOR APPLICATION NUMBER: 60/125778
 ;; PRIOR FILING DATE: 1998-03-23
 ;; PRIOR APPLICATION NUMBER: 60/139695
 ;; PRIOR FILING DATE: 1999-06-15
 ;; PRIOR APPLICATION NUMBER: 60/145070
 ;; PRIOR FILING DATE: 1999-07-20
 ;; PRIOR APPLICATION NUMBER: 60/145698
 ;; PRIOR FILING DATE: 1999-07-26
 ;; PRIOR APPLICATION NUMBER: 60/149396
 ;; PRIOR FILING DATE: 1999-08-17
 ;; PRIOR APPLICATION NUMBER: 60/169495
 ;; PRIOR FILING DATE: 1999-12-07
 ;; PRIOR APPLICATION NUMBER: 08/918874
 ;; PRIOR FILING DATE: 1997-08-26
 ;; PRIOR APPLICATION NUMBER: 08/933821
 ;; PRIOR FILING DATE: 1997-09-19
 ;; PRIOR APPLICATION NUMBER: 08/960507
 ;; PRIOR FILING DATE: 1997-10-29
 ;; PRIOR APPLICATION NUMBER: 09/114844
 ;; PRIOR FILING DATE: 1998-07-14
 ;; PRIOR APPLICATION NUMBER: 09/136801
 ;; PRIOR FILING DATE: 1998-08-19
 ;; PRIOR APPLICATION NUMBER: 09/136804
 ;; PRIOR FILING DATE: 1998-08-19
 ;; PRIOR APPLICATION NUMBER: 09/136828
 ;; PRIOR FILING DATE: 1998-08-19
 ;; PRIOR APPLICATION NUMBER: 09/158342
 ;; PRIOR FILING DATE: 1998-09-21
 ;; PRIOR APPLICATION NUMBER: 09/180997
 ;; PRIOR FILING DATE: 1998-03-10
 ;; PRIOR APPLICATION NUMBER: 09/202088
 ;; PRIOR FILING DATE: 1998-12-08
 ;; PRIOR APPLICATION NUMBER: 09/254311
 ;; PRIOR FILING DATE: 1999-03-03
 ;; PRIOR APPLICATION NUMBER: 09/254460
 ;; PRIOR FILING DATE: 1999-03-09
 ;; PRIOR APPLICATION NUMBER: 09/254465
 ;; PRIOR FILING DATE: 1999-03-05
 ;; PRIOR APPLICATION NUMBER: 09/284663
 ;; PRIOR FILING DATE: 1999-04-15
 ;; PRIOR APPLICATION NUMBER: 09/332928
 ;; PRIOR FILING DATE: 1999-06-14
 ;; PRIOR APPLICATION NUMBER: 09/332929
 ;; PRIOR FILING DATE: 1999-06-14
 ;; PRIOR APPLICATION NUMBER: 09/333075

```

      PRIOR FILING DATE: 1999-06-14
      PRIOR APPLICATION NUMBER: 09/333077
      PRIOR FILING DATE: 1999-06-14
      PRIOR APPLICATION NUMBER: 09/380137
      PRIOR FILING DATE: 1999-08-25
      PRIOR APPLICATION NUMBER: 09/380138
      PRIOR FILING DATE: 1999-08-25
      PRIOR APPLICATION NUMBER: 09/380139
      PRIOR FILING DATE: 1999-08-25
      PRIOR APPLICATION NUMBER: 09/402296
      PRIOR FILING DATE: 1999-10-18
      PRIOR APPLICATION NUMBER: 09/402297
      PRIOR FILING DATE: 1999-10-18
      PRIOR APPLICATION NUMBER: 09/423741
      PRIOR FILING DATE: 1999-11-10
      PRIOR APPLICATION NUMBER: 09/423844
      PRIOR FILING DATE: 1999-11-12
      PRIOR APPLICATION NUMBER: 09/522342
      PRIOR FILING DATE: 2000-03-09
      PRIOR APPLICATION NUMBER: 09/546815
      PRIOR FILING DATE: 2000-04-13
      PRIOR APPLICATION NUMBER: 09/664610
      PRIOR FILING DATE: 2000-09-18
      PRIOR APPLICATION NUMBER: 09/665350
      PRIOR FILING DATE: 2000-09-18
      PRIOR APPLICATION NUMBER: 09/709238
      PRIOR FILING DATE: 2000-11-06
      PRIOR APPLICATION NUMBER: 09/767609
      PRIOR FILING DATE: 2001-01-22
      PRIOR APPLICATION NUMBER: 09/802706
      PRIOR FILING DATE: 2001-03-09
      PRIOR APPLICATION NUMBER: 09/808689
      PRIOR FILING DATE: 2001-03-14
      PRIOR APPLICATION NUMBER: 09/866028
      PRIOR FILING DATE: 2001-05-25
      PRIOR APPLICATION NUMBER: 09/870574
      PRIOR FILING DATE: 2001-05-30
      PRIOR APPLICATION NUMBER: 09/872035
      PRIOR FILING DATE: 2001-06-01
      PRIOR APPLICATION NUMBER: 09/886342
      PRIOR FILING DATE: 2001-06-19
      PRIOR APPLICATION NUMBER: PCT/US98/14552
      PRIOR FILING DATE: 1998-07-14
      PRIOR APPLICATION NUMBER: PCT/US98/18824
      PRIOR FILING DATE: 1998-09-10
      PRIOR APPLICATION NUMBER: PCT/US98/19093
      PRIOR FILING DATE: 1998-09-14
      PRIOR APPLICATION NUMBER: PCT/US98/19330
      PRIOR FILING DATE: 1998-09-16
      PRIOR APPLICATION NUMBER: PCT/US98/19437
      PRIOR FILING DATE: 1998-09-17
      PRIOR APPLICATION NUMBER: PCT/US98/24855
      PRIOR FILING DATE: 1998-11-20
      PRIOR APPLICATION NUMBER: PCT/US98/25108
      PRIOR FILING DATE: 1998-12-01
      PRIOR APPLICATION NUMBER: PCT/US98/25190
      PRIOR FILING DATE: 1998-11-25
      PRIOR APPLICATION NUMBER: PCT/US99/05028
      PRIOR FILING DATE: 1999-03-08
      PRIOR APPLICATION NUMBER: PCT/US99/12252
      PRIOR FILING DATE: 1999-06-02
      PRIOR APPLICATION NUMBER: PCT/US99/20111
      PRIOR FILING DATE: 1999-09-01
      PRIOR APPLICATION NUMBER: PCT/US99/20594
      PRIOR FILING DATE: 1999-09-08
      PRIOR APPLICATION NUMBER: PCT/US99/21090
      PRIOR FILING DATE: 1999-09-15
      PRIOR APPLICATION NUMBER: PCT/US99/21547
      PRIOR FILING DATE: 1999-09-15
      PRIOR APPLICATION NUMBER: PCT/US99/28301
      /
Query Match      100.0%; Score 1218; DB 14; Length 1218
Best Local Similarity      100.0%; Pctd. No. 0,

```

	Matches	1218;	Conservative	0;	Mismatches	0	Indels	0;	Gaps	0;
QY	1	CCCA	CGCGTCCGGCGCGCGCGTGGCGCTCCATCTTTGGCCGTTCTCTCGGACCTGTCA	60						
Db	1	CCCA	CGGCTCCGGCGCGCGCGTGGCGCTCCATCTTTGGCCGTTCTCTCGGACCTGTCA	60						
QY	61	AA	GAAGTCGCGCGCGCGCGCGCGCCCTCCCTCCGATGGGCCCGGAGAGTAGAAGT	120						
Db	61	AA	GAAGTCGCGCGCGCGCGCGCGCCCTCCCTCCGATGGGCCCGGAGAGTAGAAGT	120						
QY	121	CAG	CGCCACAGCCCGACCGCGCTGTCTGAACCTTGGGGACCGGGAACGGGAGGGAGT	180						
Db	121	CAG	TCGCCACAGCCCGACCGCGCTGTCTGAACCTTGGGGACCGGGAACGGGAGGGAGT	180						
QY	181	GAG	GTTGGGGAAGTCGTGTGAGGAGAGGGAACAAGCCGCTGAGCCCTGGGCGGGCGGACC	240						
Db	181	GAG	GTTGGGGAAGTCGTGTGAGGAGAGGGAACAAGCCGCTGAGCCCTGGGCGGGCGGACC	240						
QY	241	GGA	CTGGGGCGCGGGGATGAGGCTCTGAAAAGGGCCCGGAGAGAGGTGGCTGTCAAGAC	300						
Db	241	GGA	CTGGGGCGCGGGGATGAGGCTCTGAAAAGGGCCCGGAGAGAGGTGGCTGTCAAGAC	300						
QY	301	CT	GAGAAAACACCGAGAGGTTTTCACACCGAGCCCGCGCTTGAAGATCTGAAGAAGTTC	360						
Db	301	CT	GAGAAAACACCGAGAGGTTTTCACACCGAGCCCGCGCTTGAAGATCTGAAGAAGTTC	360						
QY	361	CT	GAGAGAGGGGATTCCTCTTTCGGGGGCTCTCAACAAGAGAGTCTTGGGGGTCGC	420						
Db	361	CT	GAGAGAGGGGATTCCTCTTTCGGGGGCTCTCAACAAGAGAGTCTTGGGGGTCGC	420						
QY	421	CT	TCTGAGAGGCTGGGCTTAAACAGGCGCCAGAACTCCACATGGATGTCAAGATCCCT	480						
Db	421	CT	TCTGAGAGGCTGGGCTTAAACAGGCGCCAGAACTCCACATGGATGTCAAGATCCCT	480						
QY	481	GT	AGTTGATTAATGTTGGGAATTAAGCTCTGCAACTTTTGGGATTCAGTGTATAAAC	540						
Db	481	GT	AGTTGATTAATGTTGGGAATTAAGCTCTGCAACTTTTGGGATTCAGTGTATAAAC	540						
QY	541	AA	ATAGAGATGCAAATCTCTCAACTCCAGGTTATGAAAACGATCTTGGAAAACCTGA	600						
Db	541	AA	ATAGAGATGCAAATCTCTCAACTCCAGGTTATGAAAACGATCTTGGAAAACCTGA	600						
QY	601	TAC	CTAAATGATTCGCTTGTGGTGGGCGGTTTCTTGAAGCAGAGAAGCTTGGCGAGG	660						
Db	601	TAC	CTAAATGATTCGCTTGTGGTGGGCGGTTTCTTGAAGCAGAGAAGCTTGGCGAGG	660						
QY	661	TCT	GTTGTAAGCTCTCGAAGACATATAGCCACTTCTAGGGACCTGGAGGTCGCTAC	720						
Db	661	TCT	GTTGTTGTAAGCTCTCGAAGACATATAGCCACTTCTAGGGACCTGGAGGTCGCTAC	720						
QY	721	TAC	CATGGGGAATTCCTGATCTGCGAGATGACATGTAAGATGACATGATGTGACAC	780						
Db	721	TAC	CATGGGGAATTCCTGATCTGCGAGATGACATGTAAGATGACATGATGTGACAC	780						
QY	781	CCA	ACAGCAACAGGCGCGAGAACAGTGCATATCCCATGCTGACACAAAGACCAAC	840						
Db	781	CCA	ACAGCAACAGGCGCGAGAACAGTGCATATCCCATGCTGACACAAAGACCAAC	840						
QY	841	GGA	CGCTGTTGGGCGACCAAGAGAGGGCGAGAGCTCATGAGCCAAAGAGAAAGAAC	900						
Db	841	GGA	CGCTGTTGGGCGACCAAGAGAGGGCGAGAGCTCATGAGCCAAAGAGAAAGAAC	900						
QY	901	AAA	TGTGATGGGCTAGTGTGTGACAACCTGGCAGTATATAGGACTCTGTATGATAGTA	960						
Db	901	AAA	TGTGATGGGCTAGTGTGTGACAACCTGGCAGTATATAGGACTCTGTATGATAGTA	960						
QY	961	AGA	TCTGACTACAGGTCACCTCCAGTGGAAATGAAAAGGTTCTGCGCCGGAACCATGACT	1020						
Db	961	AGA	TCTGACTACAGGTCACCTCCAGTGGAAATGAAAAGGTTCTGCGCCGGAACCATGACT	1020						
QY	1021	TT	TGAGACTCTTCAAGTCTCTTTAGAGACATATCTGCGCAAGCTTGTGTCAACAGGCAAG	1080						
Db	1021	TT	TGAGACTCTTCAAGTCTCTTTAGAGACATATCTGCGCAAGCTTGTGTCAACAGGCAAG	1080						

QY 1081 GAGATATTTTAAAGTCCGCTGATGCGAGAGTAATGATTAAGATTGTTTGGCTT 1140
Db 1081 GAGAAATATTTTAAAGTCCGCTGATGCGAGAGTAATGATTAAGATTGTTTGGCTT 1140
QY 1141 GCGTATCTACTCTTGTCTGGAATAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
Db 1141 GCGTATCTACTCTTGTCTGGAATAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
QY 1201 CTATGATCTTTATTAGAG 1218
Db 1201 CTATGATCTTTATTAGAG 1218
RESULT 5
US-10-066-273-8
Sequence 8, Application US/10066273
Publication No. US20030032062A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Boerstlein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kjaevan
APPLICANT: Jennie P. Machner
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1C2
CURRENT APPLICATION NUMBER: US/10/066,273
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25

PRIOR APPLICATION NUMBER: 60/066894
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929

QY 1081 GAGATATTTTAAATGCTCCGCTGATGCGAGATTAATGATTAAGATTGTTTGGCTT 1140
Db 1081 GAGATATTTTAAATGCTCCGCTGATGCGAGATTAATGATTAAGATTGTTTGGCTT 1140
QY 1141 GCTGATCTACTCTTGTCTGGAATGCTTAAATGTTTCTGTGAGCAAGAAACGATTAAG 1200
Db 1141 GCTGATCTACTCTTGTCTGGAATGCTTAAATGTTTCTGTGAGCAAGAAACGATTAAG 1200
QY 1201 CTATGATCTTTATTAGAG 1218
Db 1201 CTATGATCTTTATTAGAG 1218

RESULT 6
; Sequence 8, Application US/10066494
; Publication No. US2003002063A1
; GENERAL INFORMATION:
; APPLICANT: Avi J. Ashkenazi
; APPLICANT: Kevin P. Baker
; APPLICANT: David A. Bostein
; APPLICANT: Luc Desnoyers
; APPLICANT: Dan L. Eaton
; APPLICANT: Napoleone Ferrara
; APPLICANT: Sherman Fong
; APPLICANT: Wei-Qiang Gao
; APPLICANT: Hanspeter Gerber
; APPLICANT: Mary E. Gerltsen
; APPLICANT: Audrey Goddard
; APPLICANT: Paul J. Godowski
; APPLICANT: Austin L. Gurney
; APPLICANT: Ivar J. Kjaevn
; APPLICANT: Jennie P. Mather
; APPLICANT: Mary A. Napier
; APPLICANT: James Pan
; APPLICANT: Nicholas F. Paoni
; APPLICANT: Margaret Ann Roy
; APPLICANT: Timothy A. Stewart
; APPLICANT: Daniel Tunas
; APPLICANT: Colin K. Watanabe
; APPLICANT: P. Mickey Williams
; APPLICANT: William I. Wood
; APPLICANT: Zemin Zang
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; FILE REFERENCE: P3130P1C3
; CURRENT APPLICATION NUMBER: US/10/066,494
; PRIOR APPLICATION NUMBER: 10/002,796
; PRIOR FILING DATE: 2001-11-15
; PRIOR APPLICATION NUMBER: 60/056974
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 60/059115
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/059263
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 60/059588
; PRIOR FILING DATE: 1997-09-17
; PRIOR APPLICATION NUMBER: 60/062285
; PRIOR FILING DATE: 1997-10-17
; PRIOR APPLICATION NUMBER: 60/062816
; PRIOR FILING DATE: 1997-10-24
; PRIOR APPLICATION NUMBER: 60/063082
; PRIOR FILING DATE: 1997-10-31
; PRIOR APPLICATION NUMBER: 60/063329
; PRIOR FILING DATE: 1997-10-27
; PRIOR APPLICATION NUMBER: 60/063733
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 60/066364
; PRIOR FILING DATE: 1997-11-21
; PRIOR APPLICATION NUMBER: 60/066840
; PRIOR FILING DATE: 1997-11-25

; PRIOR APPLICATION NUMBER: 60/066994
; PRIOR FILING DATE: 1997-12-16
; PRIOR APPLICATION NUMBER: 60/074086
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/074092
; PRIOR FILING DATE: 1998-02-09
; PRIOR APPLICATION NUMBER: 60/079294
; PRIOR FILING DATE: 1998-03-25
; PRIOR APPLICATION NUMBER: 60/081049
; PRIOR FILING DATE: 1998-04-08
; PRIOR APPLICATION NUMBER: 60/095998
; PRIOR FILING DATE: 1998-08-10
; PRIOR APPLICATION NUMBER: 60/097000
; PRIOR FILING DATE: 1998-08-18
; PRIOR APPLICATION NUMBER: 60/099601
; PRIOR FILING DATE: 1998-09-09
; PRIOR APPLICATION NUMBER: 60/099803
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099811
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 60/099812
; PRIOR FILING DATE: 1998-09-17
; PRIOR APPLICATION NUMBER: 60/100658
; PRIOR FILING DATE: 1998-09-24
; PRIOR APPLICATION NUMBER: 60/101922
; PRIOR FILING DATE: 1998-10-28
; PRIOR APPLICATION NUMBER: 60/109304
; PRIOR FILING DATE: 1998-11-20
; PRIOR APPLICATION NUMBER: 60/125778
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 60/136695
; PRIOR FILING DATE: 1999-06-15
; PRIOR APPLICATION NUMBER: 60/145070
; PRIOR FILING DATE: 1999-07-20
; PRIOR APPLICATION NUMBER: 60/145698
; PRIOR FILING DATE: 1999-07-26
; PRIOR APPLICATION NUMBER: 60/149396
; PRIOR FILING DATE: 1999-08-17
; PRIOR APPLICATION NUMBER: 60/169495
; PRIOR FILING DATE: 1999-12-07
; PRIOR APPLICATION NUMBER: 08/918874
; PRIOR FILING DATE: 1997-08-26
; PRIOR APPLICATION NUMBER: 08/933821
; PRIOR FILING DATE: 1997-09-18
; PRIOR APPLICATION NUMBER: 08/960507
; PRIOR FILING DATE: 1997-10-29
; PRIOR APPLICATION NUMBER: 09/114844
; PRIOR FILING DATE: 1998-07-14
; PRIOR APPLICATION NUMBER: 09/136801
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 09/136804
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 09/136828
; PRIOR FILING DATE: 1998-08-19
; PRIOR APPLICATION NUMBER: 09/158342
; PRIOR FILING DATE: 1998-09-21
; PRIOR APPLICATION NUMBER: 09/180397
; PRIOR FILING DATE: 1998-09-10
; PRIOR APPLICATION NUMBER: 09/202088
; PRIOR FILING DATE: 1998-12-08
; PRIOR APPLICATION NUMBER: 09/254311
; PRIOR FILING DATE: 1999-03-03
; PRIOR APPLICATION NUMBER: 09/254460
; PRIOR FILING DATE: 1999-03-09
; PRIOR APPLICATION NUMBER: 09/254465
; PRIOR FILING DATE: 1999-03-05
; PRIOR APPLICATION NUMBER: 09/284663
; PRIOR FILING DATE: 1999-04-15
; PRIOR APPLICATION NUMBER: 09/332928
; PRIOR FILING DATE: 1999-06-14
; PRIOR APPLICATION NUMBER: 09/332929

[illegible]

Mon Apr 5 09:54:03 2004

us-10-066-500-8.rnpb

Page 13

OY 1081 GAGAAATTTTAAATGCTCCCTGATGGCAGAGTAAATGATTTGATTTTGGCTT 1140
Db 1081 GAGAAATTTTAAATGCTCCCTGATGGCAGAGTAAATGATTTGATTTTGGCTT 1140
OY 1141 GCTGTCACTACTTGTCTGAAATGCTAAATGTTTCTGTACAGAAAACAGATAAG 1200
Db 1141 GCTGTCACTACTTGTCTGAAATGCTAAATGTTTCTGTACAGAAAACAGATAAG 1200
OY 1201 CTATGATCTTTATTAAG 1218
Db 1201 CTATGATCTTTATTAAG 1218

RESULT 7
US-10-066-269-8
Sequence 8, Application US/10066269
Publication No. US20030040014A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Eaton
APPLICANT: Napoleone Ferrara
APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Geisler
APPLICANT: Mary E. Gerltisen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kijavich
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE REFERENCE: P3130R1CA
CURRENT FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/066364
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25

PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922
PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/136595
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-15
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929

PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/548815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-19
PRIOR APPLICATION NUMBER: 09/665350
PRIOR FILING DATE: 2000-09-18
PRIOR APPLICATION NUMBER: 09/709238
PRIOR FILING DATE: 2000-11-08
PRIOR APPLICATION NUMBER: 09/767609
PRIOR FILING DATE: 2001-01-22
PRIOR APPLICATION NUMBER: 09/802706
PRIOR FILING DATE: 2001-03-09
PRIOR APPLICATION NUMBER: 09/806689
PRIOR FILING DATE: 2001-03-14
PRIOR APPLICATION NUMBER: 09/866028
PRIOR FILING DATE: 2001-05-25
PRIOR APPLICATION NUMBER: 09/870574
PRIOR FILING DATE: 2001-05-30
PRIOR APPLICATION NUMBER: 09/872035
PRIOR FILING DATE: 2001-06-01
PRIOR APPLICATION NUMBER: 09/886342
PRIOR FILING DATE: 2001-06-19
PRIOR APPLICATION NUMBER: 09/US98/14552
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/US98/18824
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/US98/19093
PRIOR FILING DATE: 1998-09-14
PRIOR APPLICATION NUMBER: 09/US98/19330
PRIOR FILING DATE: 1998-09-16
PRIOR APPLICATION NUMBER: 09/US98/19437
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 09/US98/24855
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 09/US98/25108
PRIOR FILING DATE: 1998-12-01
PRIOR APPLICATION NUMBER: 09/US98/25190
PRIOR FILING DATE: 1998-11-25
PRIOR APPLICATION NUMBER: 09/US99/05028
PRIOR FILING DATE: 1999-03-08
PRIOR APPLICATION NUMBER: 09/US99/12252
PRIOR FILING DATE: 1999-06-02
PRIOR APPLICATION NUMBER: 09/US99/20111
PRIOR FILING DATE: 1999-09-01
PRIOR APPLICATION NUMBER: 09/US99/20594
PRIOR FILING DATE: 1999-09-08
PRIOR APPLICATION NUMBER: 09/US99/21090
PRIOR FILING DATE: 1999-09-15
PRIOR APPLICATION NUMBER: 09/US99/21547

Query Match 100.0%; Score 1218; DB 14; Length 1218;
Best Local Similarity 100.0%; Pred. No. 0;

Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
QY	1	CCCACGCGTCCGCGCGCGCTGCGCTCCATCTTTTGGCTTCTCTGAGACCTGTACA	60	
DB	1	CCACGCGTCCGCGCGCGCTGCGCTCCATCTTTTGGCTTCTCTGAGACCTGTACA	60	
QY	61	AAGAGTCCGCGCGCGCGCGCGCGCTTCCGCGTGGGCGCGGAGTGAAGAAAT	120	
DB	61	AAGAGTCCGCGCGCGCGCGCGCGCTTCCGCGTGGGCGCGGAGTGAAGAAAT	120	
QY	121	CAGTGCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACTGGAAACGGAAGTCT	180	
DB	121	CAGTGCACAGCCCGACCGCGCTGCTCTGAGCCCTGGGCACTGGAAACGGAAGTCT	180	
QY	181	GAGGTTGGGAGCTCTGAGAGGAGGAGAGAGCGCTGAGCGTGGGCGCGGAGC	240	
DB	181	GAGGTTGGGAGCTCTGAGAGGAGGAGAGAGCGCTGAGCGTGGGCGCGGAGC	240	
QY	241	GCACTGGGCGCGGAGTGGCTCTGAAAGGCGCGGAGAGAGTGGCGTGGTCAAG	300	
DB	241	GCACTGGGCGCGGAGTGGCTCTGAAAGGCGCGGAGAGAGTGGCGTGGTCAAG	300	
QY	301	CTGAGAAACAGCCGAGAGGTTTCCACCGAGCGCGCTTGAAGGATCTGAAGGTT	360	
DB	301	CTGAGAAACAGCCGAGAGGTTTCCACCGAGCGCGCTTGAAGGATCTGAAGGTT	360	
QY	361	CTGAGAAAGGAGTGGCTCTTCCGCGGCTCTTCCGCGGCTCTTCCGCGGCTCT	420	
DB	361	CTGAGAAAGGAGTGGCTCTTCCGCGGCTCTTCCGCGGCTCTTCCGCGGCTCT	420	
QY	421	CTTCTAGAGGCTGCGCTACAGGCGCCAGAACTGCAATGATGATCAATCCCT	480	
DB	421	CTTCTAGAGGCTGCGCTACAGGCGCCAGAACTGCAATGATGATCAATCCCT	480	
QY	481	GTAAGTGAATATGTTGGAATATAGCTCTGCACTTCTTGGCATTCAGTTGTTAA	540	
DB	481	GTAAGTGAATATGTTGGAATATAGCTCTGCACTTCTTGGCATTCAGTTGTTAA	540	
QY	541	AAATAGATGCAATTTCTCACTCCAGGTTATGAACAATCTTGAAGAACTGA	600	
DB	541	AAATAGATGCAATTTCTCACTCCAGGTTATGAACAATCTTGAAGAACTGA	600	
QY	601	TACCTAAATGATGCTTGTGTTGGCGCGGCTTCTAGGAGAGAGCTTGGCAG	660	
DB	601	TACCTAAATGATGCTTGTGTTGGCGCGGCTTCTAGGAGAGAGCTTGGCAG	660	
QY	661	TCTGTTGTAATCTGAGAGACATAGCCACTTCTTGAAGGCTGAGGTCCTTAC	720	
DB	661	TCTGTTGTAATCTGAGAGACATAGCCACTTCTTGAAGGCTGAGGTCCTTAC	720	
QY	721	TACCATGGTAATTTCTGTTATCTGCGGAGTGAAGTGAAGAGAGAGAGTGA	780	
DB	721	TACCATGGTAATTTCTGTTATCTGCGGAGTGAAGTGAAGAGAGAGAGTGA	780	
QY	781	CCAAACAGCAAGGCGGAGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGT	840	
DB	781	CCAAACAGCAAGGCGGAGAGAGTGAAGTGAAGTGAAGTGAAGTGAAGT	840	
QY	841	GAGCCTGTTGGCCACCAAGAGAGGCGGAGAGTGAAGTGAAGTGAAGTGA	900	
DB	841	GAGCCTGTTGGCCACCAAGAGAGGCGGAGAGTGAAGTGAAGTGAAGTGA	900	
QY	901	AAATGAGATGAGGCTAGTGTGACACACTGAGAGTGAAGTGAAGTGAAGT	960	
DB	901	AAATGAGATGAGGCTAGTGTGACACACTGAGAGTGAAGTGAAGTGAAGT	960	
QY	961	AGATCTGACTACAGGTCACCTCAGTGAATGAAGTGTCTTCCCGGAAACAT	1020	
DB	961	AGATCTGACTACAGGTCACCTCAGTGAATGAAGTGTCTTCCCGGAAACAT	1020	
QY	1021	TTAGACTCTCTTCTGTTCTTTAGAGATATCTGCGCAAGCTTGTGCTCAG	1080	
DB	1021	TTAGACTCTCTTCTGTTCTTTAGAGATATCTGCGCAAGCTTGTGCTCAG	1080	

QY 1081 GAGAAATATTTTAATGCTCCGCTGATGGCAGAGTAAATGATTAATGATTTTGGCT 1140
DB 1081 GAGAAATATTTTAATGCTCCGCTGATGGCAGAGTAAATGATTAATGATTTTGGCT 1140
QY 1141 GCTGTATCTACTTTGTCTGGAAATGCTAAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
DB 1141 GCTGTATCTACTTTGTCTGGAAATGCTAAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
QY 1201 CTATGATCTTTATTAAG 1218
DB 1201 CTATGATCTTTATTAAG 1218

RESULT 8
US-10-066-856A-5
Sequence 5, Application US/1006856A
Publication No. US200304841A1
GENERAL INFORMATION:
APPLICANT: Baker, Kevin P.
APPLICANT: Botstein, David
APPLICANT: Desnoyers, Luc
APPLICANT: Baton, Dan L.
APPLICANT: Ferrara, Napoleone
APPLICANT: Fong, Sherman
APPLICANT: Gao, Wei-Qiang
APPLICANT: Goddard, Audrey
APPLICANT: Grimaldi, Paul J.
APPLICANT: Guiney, Austin L.
APPLICANT: Hillan, Kenneth J.
APPLICANT: Pan, James
APPLICANT: Paoni, Nicholas F.
TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
Acids Encoding the Same
FILE REFERENCE: P2830P1C14
CURRENT APPLICATION NUMBER: US/10/066, 856A
NUMBER OF SEQ ID NOS: 477
Prior Application removed - See File Wrapper or Palm
SEQ ID NO 5
LENGTH: 1218
TYPE: DNA
ORGANISM: Homo sapiens
US-10-066-856A-5

Query Match 100.0%; Score 1218; DB 14; Length 1218;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACGCGTCCGCGCGCGTGGCTCGGCTCCATCTTTGCGGCTTCTCTCGACCTGTACA 60
DB 1 CCCACGCGTCCGCGCGCGTGGCTCGGCTCCATCTTTGCGGCTTCTCTCGACCTGTACA 60
QY 61 AAGGAGTCCG 120
DB 61 AAGGAGTCCG 120
QY 121 CAGTCCCAAGCG 180
DB 121 CAGTCCCAAGCG 180
QY 121 CAGTCCCAAGCG 180
DB 121 CAGTCCCAAGCG 180
QY 181 GAGGCTTGGGAGCGTCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
DB 181 GAGGCTTGGGAGCGTCTGTGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 240
QY 241 GACATCGGGGCGGGGAGTGTCTGTGAAAGGGCGCGGAGAGAGAGTGGTGGTCAAGAC 300
DB 241 GACATCGGGGCGGGGAGTGTCTGTGAAAGGGCGCGGAGAGAGAGTGGTGGTCAAGAC 300
QY 301 CTGAGAAACAGCCGAGAGGTTTCCACCGAGGCGCGCGCTTGAAGGATCTGAAGAGTTTC 360
DB 301 CTGAGAAACAGCCGAGAGGTTTCCACCGAGGCGCGCGCTTGAAGGATCTGAAGAGTTTC 360

QY 361 CTAGAGAGGGGTGTTCCTCTTTTCGGGGGTCTTCACCAAGAGGTTCTTGGGGGTGCC 420
DB 361 CTAGAGAGGGGTGTTCCTCTTTTCGGGGGTCTTCACCAAGAGGTTCTTGGGGGTGCC 420
QY 421 CTTCTGAGAGGCGCGGGCTAAACAGGGGCCAGAACTGCCATGGATGCTCCAGAAATCCCT 480
DB 421 CTTCTGAGAGGCGCGGGCTAAACAGGGGCCAGAACTGCCATGGATGCTCCAGAAATCCCT 480
QY 481 GTAGTGAATATGTGGGAATTAAGCTCTGCAACTTTCTTGGCATTAAGTTTAAAC 540
DB 481 GTAGTGAATATGTGGGAATTAAGCTCTGCAACTTTCTTGGCATTAAGTTTAAAC 540
QY 541 AATATGATGCAATTCCTCACTCCAGGTTATGAAACAGTACTGGAAAACTGAAAAAC 600
DB 541 AATATGATGCAATTCCTCACTCCAGGTTATGAAACAGTACTGGAAAACTGAAAAAC 600
QY 601 TACCTAATGATCGTCTTTGGTGGCGGTGTCTTACGAGCAGAAAGCTTGGCCAGGG 660
DB 601 TACCTAATGATCGTCTTTGGTGGCGGTGTCTTACGAGCAGAAAGCTTGGCCAGGG 660
QY 661 TCTGTGTTGACTCTCGAAGGACATAGCCACTTCTTACGAGGACTGGAGGTGCCGCTAC 720
DB 661 TCTGTGTTGACTCTCGAAGGACATAGCCACTTCTTACGAGGACTGGAGGTGCCGCTAC 720
QY 721 TACCATGGGTAATTCCTGTATCTGCGAGATGACAGTGAACAGATGACAGTGTGACAC 780
DB 721 TACCATGGGTAATTCCTGTATCTGCGAGATGACAGTGAACAGATGACAGTGTGACAC 780
QY 781 CCACAGCAACAGCGCGGAGAACAGTGCAGTACCTCTCTGACACAGAGCCCAACAC 840
DB 781 CCACAGCAACAGCGCGGAGAACAGTGCAGTACCTCTCTGACACAGAGCCCAACAC 840
QY 841 GGACCCCTGTGGCCACCAAGAGGGGCGGAGACTCTAGACCAAGAGAAAGAAACA 900
DB 841 GGACCCCTGTGGCCACCAAGAGGGGCGGAGACTCTAGACCAAGAGAAAGAAACA 900
QY 901 AATATGATGAGGCTAGTGTGAGACACTGGCAGTAAATAGGATCTTGTGATTAAGTA 960
DB 901 AATATGATGAGGCTAGTGTGAGACACTGGCAGTAAATAGGATCTTGTGATTAAGTA 960
QY 961 AGTATCTGACACGCGTCACTCCAGTGAATGAAAGGTTCTGCCGGAACATGACT 1020
DB 961 AGTATCTGACACGCGTCACTCCAGTGAATGAAAGGTTCTGCCGGAACATGACT 1020
QY 1021 TTAGACCTCCTTCAGTCTCTTTAGACATCTGCGCAAGCTTGTGCTCACAGGCAAG 1080
DB 1021 TTAGACCTCCTTCAGTCTCTTTAGACATCTGCGCAAGCTTGTGCTCACAGGCAAG 1080
QY 1081 GAGAAATATTTTAATGCTCCGCTGATGGCAGAGTAAATGATTAATGATTTTGGCT 1140
DB 1081 GAGAAATATTTTAATGCTCCGCTGATGGCAGAGTAAATGATTAATGATTTTGGCT 1140
QY 1141 GCTGTATCTACTTTGTCTGGAAATGCTAAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
DB 1141 GCTGTATCTACTTTGTCTGGAAATGCTAAATGTTTCTGTAGCAGAAAAACGATTAAG 1200
QY 1201 CTATGATCTTTATTAAG 1218
DB 1201 CTATGATCTTTATTAAG 1218

RESULT 9
US-10-066-211-8
Sequence 8, Application US/1006211
Publication No. US200304841A1
GENERAL INFORMATION:
APPLICANT: Avi J. Ashkenazi
APPLICANT: Kevin P. Baker
APPLICANT: David A. Botstein
APPLICANT: Luc Desnoyers
APPLICANT: Dan L. Baton
APPLICANT: Napoleone Ferrara

APPLICANT: Sherman Fong
APPLICANT: Wei-Qiang Gao
APPLICANT: Hanspeter Gerber
APPLICANT: Mary E. Gerritsen
APPLICANT: Audrey Goddard
APPLICANT: Paul J. Godowski
APPLICANT: Austin L. Gurney
APPLICANT: Ivar J. Kjaer
APPLICANT: Jennie P. Mather
APPLICANT: Mary A. Napier
APPLICANT: James Pan
APPLICANT: Nicholas F. Paoni
APPLICANT: Margaret Ann Roy
APPLICANT: Timothy A. Stewart
APPLICANT: Daniel Tumas
APPLICANT: Colin K. Watanabe
APPLICANT: P. Mickey Williams
APPLICANT: William I. Wood
APPLICANT: Zemin Zang
TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
FILE OF INVENTION: ACIDS ENCODING THE SAME
FILE REFERENCE: P3130R1C8
CURRENT APPLICATION NUMBER: US/10/066,211
PRIOR FILING DATE: 2002-02-01
PRIOR APPLICATION NUMBER: 10/002,796
PRIOR FILING DATE: 2001-11-15
PRIOR APPLICATION NUMBER: 60/056974
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 60/059115
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/059263
PRIOR FILING DATE: 1997-09-18
PRIOR APPLICATION NUMBER: 60/059588
PRIOR FILING DATE: 1997-09-17
PRIOR APPLICATION NUMBER: 60/062285
PRIOR FILING DATE: 1997-10-17
PRIOR APPLICATION NUMBER: 60/062816
PRIOR FILING DATE: 1997-10-24
PRIOR APPLICATION NUMBER: 60/063082
PRIOR FILING DATE: 1997-10-31
PRIOR APPLICATION NUMBER: 60/063329
PRIOR FILING DATE: 1997-10-27
PRIOR APPLICATION NUMBER: 60/063733
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 60/063654
PRIOR FILING DATE: 1997-11-21
PRIOR APPLICATION NUMBER: 60/066840
PRIOR FILING DATE: 1997-11-25
PRIOR APPLICATION NUMBER: 60/069694
PRIOR FILING DATE: 1997-12-16
PRIOR APPLICATION NUMBER: 60/074086
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/074092
PRIOR FILING DATE: 1998-02-09
PRIOR APPLICATION NUMBER: 60/079294
PRIOR FILING DATE: 1998-03-25
PRIOR APPLICATION NUMBER: 60/081049
PRIOR FILING DATE: 1998-04-08
PRIOR APPLICATION NUMBER: 60/095998
PRIOR FILING DATE: 1998-08-10
PRIOR APPLICATION NUMBER: 60/097000
PRIOR FILING DATE: 1998-08-18
PRIOR APPLICATION NUMBER: 60/099601
PRIOR FILING DATE: 1998-09-09
PRIOR APPLICATION NUMBER: 60/099803
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099811
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/099812
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 60/100858
PRIOR FILING DATE: 1998-09-17
PRIOR APPLICATION NUMBER: 60/101922

PRIOR FILING DATE: 1998-09-24
PRIOR APPLICATION NUMBER: 60/106032
PRIOR FILING DATE: 1998-10-28
PRIOR APPLICATION NUMBER: 60/109304
PRIOR FILING DATE: 1998-11-20
PRIOR APPLICATION NUMBER: 60/125778
PRIOR FILING DATE: 1999-03-23
PRIOR APPLICATION NUMBER: 60/139695
PRIOR FILING DATE: 1999-06-15
PRIOR APPLICATION NUMBER: 60/145070
PRIOR FILING DATE: 1999-07-20
PRIOR APPLICATION NUMBER: 60/145698
PRIOR FILING DATE: 1999-07-26
PRIOR APPLICATION NUMBER: 60/149396
PRIOR FILING DATE: 1999-08-17
PRIOR APPLICATION NUMBER: 60/169495
PRIOR FILING DATE: 1999-12-07
PRIOR APPLICATION NUMBER: 08/918874
PRIOR FILING DATE: 1997-08-26
PRIOR APPLICATION NUMBER: 08/933821
PRIOR FILING DATE: 1997-09-19
PRIOR APPLICATION NUMBER: 08/960507
PRIOR FILING DATE: 1997-10-29
PRIOR APPLICATION NUMBER: 09/114844
PRIOR FILING DATE: 1998-07-14
PRIOR APPLICATION NUMBER: 09/136801
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136804
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/136828
PRIOR FILING DATE: 1998-08-19
PRIOR APPLICATION NUMBER: 09/158342
PRIOR FILING DATE: 1998-09-21
PRIOR APPLICATION NUMBER: 09/180997
PRIOR FILING DATE: 1998-09-10
PRIOR APPLICATION NUMBER: 09/202088
PRIOR FILING DATE: 1998-12-08
PRIOR APPLICATION NUMBER: 09/254311
PRIOR FILING DATE: 1999-03-03
PRIOR APPLICATION NUMBER: 09/254460
PRIOR FILING DATE: 1999-03-09
PRIOR APPLICATION NUMBER: 09/254465
PRIOR FILING DATE: 1999-03-05
PRIOR APPLICATION NUMBER: 09/284663
PRIOR FILING DATE: 1999-04-15
PRIOR APPLICATION NUMBER: 09/332928
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/332929
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333075
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/333077
PRIOR FILING DATE: 1999-06-14
PRIOR APPLICATION NUMBER: 09/380137
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380138
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/380139
PRIOR FILING DATE: 1999-08-25
PRIOR APPLICATION NUMBER: 09/403296
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/403297
PRIOR FILING DATE: 1999-10-18
PRIOR APPLICATION NUMBER: 09/423741
PRIOR FILING DATE: 1999-11-10
PRIOR APPLICATION NUMBER: 09/423844
PRIOR FILING DATE: 1999-11-12
PRIOR APPLICATION NUMBER: 09/522342
PRIOR FILING DATE: 2000-03-09
PRIOR APPLICATION NUMBER: 09/546815
PRIOR FILING DATE: 2000-04-13
PRIOR APPLICATION NUMBER: 09/664610
PRIOR FILING DATE: 2000-09-18

APPLICANT: Sherman Fong
 APPLICANT: Wei-Qiang Gao
 APPLICANT: Hanspeter Gerber
 APPLICANT: Mary E. Gerritsen
 APPLICANT: Audrey Goddard
 APPLICANT: Paul J. Godowski
 APPLICANT: Austin L. Gurney
 APPLICANT: Ivar J. Kljavin
 APPLICANT: Jennie P. Mather
 APPLICANT: Mary A. Napier
 APPLICANT: James Pan
 APPLICANT: Nicholas F. Paoni
 APPLICANT: Margaret Ann Roy
 APPLICANT: Timothy A. Stewart
 APPLICANT: Daniel Tumas
 APPLICANT: Colin K. Watanabe
 APPLICANT: P. Mickey Williams
 APPLICANT: William I. Wood
 APPLICANT: Zemin Zang
 TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
 FILE REFERENCE: P3130R1C3
 CURRENT APPLICATION NUMBER: US/10/066,193
 PRIOR FILING DATE: 2002-02-01
 PRIOR APPLICATION NUMBER: 10/002,796
 PRIOR FILING DATE: 2001-11-15
 PRIOR APPLICATION NUMBER: 60/056974
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 60/059115
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/059263
 PRIOR FILING DATE: 1997-09-18
 PRIOR APPLICATION NUMBER: 60/059588
 PRIOR FILING DATE: 1997-09-17
 PRIOR APPLICATION NUMBER: 60/062285
 PRIOR FILING DATE: 1997-10-17
 PRIOR APPLICATION NUMBER: 60/062816
 PRIOR FILING DATE: 1997-10-24
 PRIOR APPLICATION NUMBER: 60/063082
 PRIOR FILING DATE: 1997-10-31
 PRIOR APPLICATION NUMBER: 60/063329
 PRIOR FILING DATE: 1997-10-27
 PRIOR APPLICATION NUMBER: 60/063733
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 60/066364
 PRIOR FILING DATE: 1997-11-21
 PRIOR APPLICATION NUMBER: 60/066840
 PRIOR FILING DATE: 1997-11-25
 PRIOR APPLICATION NUMBER: 60/066994
 PRIOR FILING DATE: 1997-12-16
 PRIOR APPLICATION NUMBER: 60/074086
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/074092
 PRIOR FILING DATE: 1998-02-09
 PRIOR APPLICATION NUMBER: 60/079294
 PRIOR FILING DATE: 1998-03-25
 PRIOR APPLICATION NUMBER: 60/081049
 PRIOR FILING DATE: 1998-04-08
 PRIOR APPLICATION NUMBER: 60/095998
 PRIOR FILING DATE: 1998-08-10
 PRIOR APPLICATION NUMBER: 60/097000
 PRIOR FILING DATE: 1998-08-18
 PRIOR APPLICATION NUMBER: 60/099601
 PRIOR FILING DATE: 1998-09-09
 PRIOR APPLICATION NUMBER: 60/099803
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099811
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/099812
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 60/100858
 PRIOR FILING DATE: 1998-09-17
 PRIOR APPLICATION NUMBER: 60/101922

PRIOR FILING DATE: 1998-09-24
 PRIOR APPLICATION NUMBER: 60/106032
 PRIOR FILING DATE: 1998-10-28
 PRIOR APPLICATION NUMBER: 60/109304
 PRIOR FILING DATE: 1998-11-20
 PRIOR APPLICATION NUMBER: 60/125778
 PRIOR FILING DATE: 1999-03-23
 PRIOR APPLICATION NUMBER: 60/136995
 PRIOR FILING DATE: 1999-06-15
 PRIOR APPLICATION NUMBER: 60/145070
 PRIOR FILING DATE: 1999-07-20
 PRIOR APPLICATION NUMBER: 60/145698
 PRIOR FILING DATE: 1999-07-26
 PRIOR APPLICATION NUMBER: 60/149396
 PRIOR FILING DATE: 1999-08-17
 PRIOR APPLICATION NUMBER: 60/169495
 PRIOR FILING DATE: 1999-12-07
 PRIOR APPLICATION NUMBER: 08/918874
 PRIOR FILING DATE: 1997-08-26
 PRIOR APPLICATION NUMBER: 08/933821
 PRIOR FILING DATE: 1997-09-19
 PRIOR APPLICATION NUMBER: 08/960507
 PRIOR FILING DATE: 1997-10-29
 PRIOR APPLICATION NUMBER: 09/114844
 PRIOR FILING DATE: 1998-07-14
 PRIOR APPLICATION NUMBER: 09/136801
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136804
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/136828
 PRIOR FILING DATE: 1998-08-19
 PRIOR APPLICATION NUMBER: 09/158342
 PRIOR FILING DATE: 1998-09-21
 PRIOR APPLICATION NUMBER: 09/180997
 PRIOR FILING DATE: 1998-09-10
 PRIOR APPLICATION NUMBER: 09/202088
 PRIOR FILING DATE: 1998-12-08
 PRIOR APPLICATION NUMBER: 09/254311
 PRIOR FILING DATE: 1999-03-03
 PRIOR APPLICATION NUMBER: 09/254460
 PRIOR FILING DATE: 1999-03-09
 PRIOR APPLICATION NUMBER: 09/254465
 PRIOR FILING DATE: 1999-03-05
 PRIOR APPLICATION NUMBER: 09/284663
 PRIOR FILING DATE: 1999-04-15
 PRIOR APPLICATION NUMBER: 09/332928
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/332929
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/333075
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/333077
 PRIOR FILING DATE: 1999-06-14
 PRIOR APPLICATION NUMBER: 09/380137
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380138
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/380139
 PRIOR FILING DATE: 1999-08-25
 PRIOR APPLICATION NUMBER: 09/403296
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/403297
 PRIOR FILING DATE: 1999-10-18
 PRIOR APPLICATION NUMBER: 09/423741
 PRIOR FILING DATE: 1999-11-10
 PRIOR APPLICATION NUMBER: 09/423844
 PRIOR FILING DATE: 1999-11-12
 PRIOR APPLICATION NUMBER: 09/522342
 PRIOR FILING DATE: 2000-03-09
 PRIOR APPLICATION NUMBER: 09/548815
 PRIOR FILING DATE: 2000-04-13
 PRIOR APPLICATION NUMBER: 09/664610
 PRIOR FILING DATE: 2000-09-18


```

Db      ||| 361 CTAGAGAGGGTGTCTCTCTTGGGGGTTCTTACCAAGAGTTCTTGGGGTGGCC 420
Qy      ||| 421 CTCTGAGAGGCTGCGGCTTACAGGGCCAGAACTGCGATGATCTCAGAAATCCCT 480
Db      ||| 421 CTCTGAGAGGCTGCGGCTTACAGGGCCAGAACTGCGATGATCTCAGAAATCCCT 480
Qy      ||| 481 GTAGTGAATAGTTGGGAATTAAGTCTGCAACTTCTTGGCACTTGAAGTTTAAAC 540
Db      ||| 481 GTAGTGAATAGTTGGGAATTAAGTCTGCAACTTCTTGGCACTTGAAGTTTAAAC 540
Qy      ||| 541 AAATAGATGCAAAATCTCTCACTCAGATTATGAAAACAGTACTTGAAAAC 600
Db      ||| 541 AAATAGATGCAAAATCTCTCACTCAGATTATGAAAACAGTACTTGAAAAC 600
Qy      ||| 601 TACCTAAATGATGCTCTTGGTGGGCGGTCTTCTTACAGAGCAAGAGCTTGGCGAGG 660
Db      ||| 601 TACCTAAATGATGCTCTTGGTGGGCGGTCTTCTTACAGAGCAAGAGCTTGGCGAGG 660
Qy      ||| 661 TCTGTTGATGCTCTGAGAGCAATAGCCCACTTCTTACAGAGCAAGAGCTTGGCGAGG 720
Db      ||| 661 TCTGTTGATGCTCTGAGAGCAATAGCCCACTTCTTACAGAGCAAGAGCTTGGCGAGG 720
Qy      ||| 721 TACCATGAGTAATCTCTGATCTGCGAGATGACAGTGAACAATGATGTTGAC 780
Db      ||| 721 TACCATGAGTAATCTCTGATCTGCGAGATGACAGTGAACAATGATGTTGAC 780
Qy      ||| 781 CCAAGAGCAAGCGCGGAGAAAGAGTACCCCTGCTGACCAAGAGCAAGCAAC 840
Db      ||| 781 CCAAGAGCAAGCGCGGAGAAAGAGTACCCCTGCTGACCAAGAGCAAGCAAC 840
Qy      ||| 841 GGAACCTGTTGGCGCAGCAAGAGAGGCGCGAGAGCTTCTGATGAGCCAGAGAGAGAG 900
Db      ||| 841 GGAACCTGTTGGCGCAGCAAGAGAGGCGCGAGAGCTTCTGATGAGCCAGAGAGAGAG 900
Qy      ||| 901 AAATGATGATGAGCTAGTGTGAGACACATGCGAATATAGAGCTCTGATGATGATG 960
Db      ||| 901 AAATGATGATGAGCTAGTGTGAGACACATGCGAATATAGAGCTCTGATGATGATG 960
Qy      ||| 961 AGTATCTGACTCAGCGTCACTCAGTGAATGAAAGATGTTCTGCGGAGAACATGACT 1020
Db      ||| 961 AGTATCTGACTCAGCGTCACTCAGTGAATGAAAGATGTTCTGCGGAGAACATGACT 1020
Qy      ||| 1021 TTAGAGCTCTCTCACTTCTTGAAGACATCTGCGCAAGCTTGTCTCAAGGCAAG 1080
Db      ||| 1021 TTAGAGCTCTCTCACTTCTTGAAGACATCTGCGCAAGCTTGTCTCAAGGCAAG 1080
Qy      ||| 1081 GAGAAATATTTAATGCTCCGCTGATGCGAGATGATGATGATGATGATGATGATG 1140
Db      ||| 1081 GAGAAATATTTAATGCTCCGCTGATGCGAGATGATGATGATGATGATGATGATG 1140
Qy      ||| 1141 GCTGTCATCTACTTGTCTGAAATGTCTAAATGTTTCTGAGCAAGAAACAGATTAAG 1200
Db      ||| 1141 GCTGTCATCTACTTGTCTGAAATGTCTAAATGTTTCTGAGCAAGAAACAGATTAAG 1200
Qy      ||| 1201 CTATGATCTTTATTTAGAG 1218
Db      ||| 1201 CTATGATCTTTATTTAGAG 1218

```

```

RESULT 14
US-10-012-121A-5
; Sequence 5, Application US/10012121A
; Publication No. US20030073810A1
; GENERAL INFORMATION:
; APPLICANT: Baker, Kevin P.
; APPLICANT: Botstein, David
; APPLICANT: Desnovers, Luc
; APPLICANT: Eaton, Dan L.
; APPLICANT: Ferrara, Napoleone
; APPLICANT: Fong, Sherman
; APPLICANT: Geo, Wei-Qiang
; APPLICANT: Goddard, Audrey

```

```

; APPLICANT: Godowski, Paul J.
; APPLICANT: Grimaldi, Christopher J.
; APPLICANT: Gurney, Austin L.
; APPLICANT: Hillan, Kenneth J.
; APPLICANT: Pan, James
; APPLICANT: Paoni, Nicholas F.
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic
; FILE REFERENCE: P2830PIC20
; CURRENT APPLICATION NUMBER: US/10/012,121A
; PRIOR APPLICATION: 2001-12-07
; PRIOR APPLICATION removed - See File Wrapper or Palm
; SEQ ID NO 5
; NUMBER OF SEQ ID NOS: 477
; LENGTH: 1218
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-012-121A-5

Query Match      100.0%; Score 1218; DB 14; Length 1218;
Best Local Similarity 100.0%; Pred. No. 0;
Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1  CCCAGCGTCCGCGCGCGGCTGCGCGTCCATCTTTGCGGTTCTCTCGGACCTGTCA 60
Db      1  CCCAGCGTCCGCGCGCGGCTGCGCGTCCATCTTTGCGGTTCTCTCGGACCTGTCA 60
Qy      61  AAGGAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Db      61  AAGGAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Qy      121  CAGTGCACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Db      121  CAGTGCACAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 180
Qy      181  GAGGATTGGGAGCGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Db      181  GAGGATTGGGAGCGTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Qy      241  GAGCTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Db      241  GAGCTGGGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 300
Qy      301  CTGAGAAACAGCGCGAGAGGTTTCCACGAGGCGCGCGCGCGCGCGCGCGCGCGCG 360
Db      301  CTGAGAAACAGCGCGAGAGGTTTCCACGAGGCGCGCGCGCGCGCGCGCGCGCGCG 360
Qy      361  CTGAGAGAGGTTTCCCTCTCTTCCGCGGCTCTCTCTCTCTCTCTCTCTCTCTCT 420
Db      361  CTGAGAGAGGTTTCCCTCTCTTCCGCGGCTCTCTCTCTCTCTCTCTCTCTCTCT 420
Qy      421  CTTCTGAGAGGCTGCGGCTTACAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
Db      421  CTTCTGAGAGGCTGCGGCTTACAGAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 480
Qy      481  GTAGTGAATAGTTGGGAATTAAGTCTGCAACTTCTTGGCACTTGAAGTTTAAAC 540
Db      481  GTAGTGAATAGTTGGGAATTAAGTCTGCAACTTCTTGGCACTTGAAGTTTAAAC 540
Qy      541  AAATAGATGCAAAATCTCTCACTCAGATTATGAAAACAGTACTTGAAAAC 600
Db      541  AAATAGATGCAAAATCTCTCACTCAGATTATGAAAACAGTACTTGAAAAC 600
Qy      601  TACCTAAATGATGCTCTTGGTGGGCGGTCTTCTTACAGAGCAAGAGCTTGGCGAGG 660
Db      601  TACCTAAATGATGCTCTTGGTGGGCGGTCTTCTTACAGAGCAAGAGCTTGGCGAGG 660
Qy      661  TCTGTTGATGCTCTGAGAGCAATAGCCCACTTCTTACAGAGCAAGAGCTTGGCGAGG 720
Db      661  TCTGTTGATGCTCTGAGAGCAATAGCCCACTTCTTACAGAGCAAGAGCTTGGCGAGG 720
Qy      721  TACCATGAGTAATCTCTGATCTGCGAGATGACAGTGAACAATGATGTTGAC 780

```


Db 721 TACCATGGTAATTCTGTATCTGCCGAGATGACAGTGAACAGATGACAGTGTGACAC 780
QY 781 CCAACAGCAACAGGCCGAGAAACAGTGAATACCACTGCTGACACAAGAGCCAAACCAAG 840
Db 781 CCAACAGCAACAGGCCGAGAAACAGTGAATACCACTGCTGACACAAGAGCCAAACCAAG 840
QY 841 GAAACCTGTTGAGGCAACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
Db 841 GAAACCTGTTGAGGCAACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAG 900
QY 901 AAATGTGATGGGCTAGTGTGACACACTGACATGATACGAGCTTGTGATGATGATGAT 960
Db 901 AAATGTGATGGGCTAGTGTGACACACTGACATGATACGAGCTTGTGATGATGATGAT 960
QY 961 AGTATCTGACTCAGGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCT 1020
Db 961 AGTATCTGACTCAGGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCTCAGCT 1020
QY 1021 TTAGGACTCCTTCAAGTCTTTAGGACATACTGCCAAGCTTGTGCTCACAGGSCAAG 1080
Db 1021 TTAGGACTCCTTCAAGTCTTTAGGACATACTGCCAAGCTTGTGCTCACAGGSCAAG 1080
QY 1081 GAGAAATTTTAAATGCTCCGCTGATGSCAGATTAATGATTAATGATTAATGATTAAT 1140
Db 1081 GAGAAATTTTAAATGCTCCGCTGATGSCAGATTAATGATTAATGATTAATGATTAAT 1140
QY 1141 GCTGTCATCTACTTGTCTGAAAAATGCTAAATGTTTCTGTAGCAGAAAAACAGATTAAG 1200
Db 1141 GCTGTCATCTACTTGTCTGAAAAATGCTAAATGTTTCTGTAGCAGAAAAACAGATTAAG 1200
QY 1201 CTATGATCTTTATTAGAG 1218
Db 1201 CTATGATCTTTATTAGAG 1218

Search completed: Apr:1 4, 2004, 09:11:21
Job time : 512 secs

QY 465 ATGTCAGAATCCCGTGAAGTTGATAATGTGGGAATAAGCTCTG 509
 ||| | | | | | | |
Db 1066 ATCGCAAGCTCCCTGCACCTGCAGCCAAAGCTCGGAATTAAATTCG 1022

RESULT 4
US-08-789-329C-1

```

1  GENERAL INFORMATION:
2  APPLICANT:  SHERWOOD ET AL.
3  TITLE OF INVENTION:  CHICKEN NEUROPEPTIDE GENE USEFUL
4  TITLE OF INVENTION:  FOR IMPROVED POULTRY PRODUCTION
5  NUMBER OF SEQUENCES:  20

```

Query Match 3.5%; Score 42.2; DB 3; Length 6529

QY	4	ACGGCTCCGGGCGCCGTGGCTTCGGCTCATCTTTTCCGTTCTCTTGAGACCTGTCAAG 63
Db	5433	AGGCGCGCGCACCCCGGGCTCGGCTCCCTCCCGGAGACAGCCCGGATGGTCATCG 54923
QY	64	GAGTGGCGCGCGCGCGCGCGCCCTCCCTCCGCTGGGCGCCGGAGGTAGAGAAAGTCAG 123
Db	5493	GAAGCAACCCCCCGCGAACGCATATATGATGAGGGGGGGGGGGAGACCTCT 555
QY	124	TGCCACAGCCCGACCGCGCTGCTCTGAGACCTTGGACACCGGAAACGGAGAGGTCTAG 183
Db	5553	CGCTCGGCGCGGCCCCGCGCTTTGTCTGCGGAGATGTCGGGGCGGGGCGGGGTAG 56123
QY	184	GATTGGGAGACGTCTGTGAGGAGAGGGGAAACAGCCGCTCGAGCCTGGGGGGGG 234
Db	5613	GGCCCGAGTTGGAGTTGGGGTTTGAAGGCGGGGTTTGGATCGGGCCCGG 5663

RESULT 5
US-08-615-170-20/c
; Sequence 20, Application US/08615170
; Patent No. 5776776
GENERAL INFORMATION:

1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
26
27
28
29
30
31
32
33
34
35
36
37
38
39
40
41
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
64
65
66
67
68
69
70
71
72
73
74
75
76
77
78
79
80
81
82
83
84
85
86
87
88
89
90
91
92
93
94
95
96
97
98
99
100
101
102
103
104
105
106
107
108
109
110
111
112
113
114
115
116
117
118
119
120
121
122
123
124
125
126
127
128
129
130
131
132
133
134
135
136
137
138
139
140
141
142
143
144
145
146
147
148
149
150
151
152
153
154
155
156
157
158
159
160
161
162
163
164
165
166
167
168
169
170
171
172
173
174
175
176
177
178
179
180
181
182
183
184
185
186
187
188
189
190
191
192
193
194
195
196
197
198
199
200
201
202
203
204
205
206
207
208
209
210
211
212
213
214
215
216
217
218
219
220
221
222
223
224
225
226
227
228
229
230
231
232
233
234
235
236
237
238
239
240
241
242
243
244
245
246
247
248
249
250
251
252
253
254
255
256
257
258
259
260
261
262
263
264
265
266
267
268
269
270
271
272
273
274
275
276
277
278
279
280
281
282
283
284
285
286
287
288
289
290
291
292
293
294
295
296
297
298
299
300
301
302
303
304
305
306
307
308
309
310
311
312
313
314
315
316
317
318
319
320
321
322
323
324
325
326
327
328
329
330
331
332
333
334
335
336
337
338
339
340
341
342
343
344
345
346
347
348
349
350
351
352
353
354
355
356
357
358
359
360
361
362
363
364
365
366
367
368
369
370
371
372
373
374
375
376
377
378
379
380
381
382
383
384
385
386
387
388
389
390
391
392
393
394
395
396
397
398
399
400
401
402
403
404
405
406
407
408
409
410
411
412
413
414
415
416
417
418
419
420
421
422
423
424
425
426
427
428
429
430
431
432
433
434
435
436
437
438
439
440
441
442
443
444
445
446
447
448
449
450
451
452
453
454
455
456
457
458
459
460
461
462
463
464
465
466
467
468
469
470
471
472
473
474
475
476
477
478
479
480
481
482
483
484
485
486
487
488
489
490
491
492
493
494
495
496
497
498
499
500
501
502
503
504
505
506
507
508
509
510
511
512
513
514
515
516
517
518
519
520
521
522
523
524
525
526
527
528
529
530
531
532
533
534
535
536
537
538
539
540
541
542
543
544
545
546
547
548
549
550
551
552
553
554
555
556
557
558
559
560
561
562
563
564
565
566
567
568
569
570
571
572
573
574
575
576
577
578
579
580
581
582
583
584
585
586
587
588
589
590
591
592
593
594
595
596
597
598
599
600
601
602
603
604
605
606
607
608
609
610
611
612
613
614
615
616
617
618
619
620
621
622
623
624
625
626
627
628
629
630
631
632
633
634
635
636
637
638
639
640
641
642
643
644
645
646
647
648
649
650
651
652
653
654
655
656
657
658
659
660
661
662
663
664
665
666
667
668
669
670
671
672
673
674
675
676
677
678
679
680
681
682
683
684
685
686
687
688
689
690
691
692
693
694
695
696
697
698
699
700
701
702
703
704
705
706
707
708
709
710
711
712
713
714
715
716
717
718
719
720
721
722
723
724
725
726
727
728
729
730
731
732
733
734
735
736
737
738
739
740
741
742
743
744
745
746
747
748
749
750
751
752
753
754
755
756
757
758
759
760
761
762
763
764
765
766
767
768
769
770
771
772
773
774
775
776
777
778
779
780
781
782
783
784
785
786
787
788
789
790
791
792
793
794
795
796
797
798
799
800
801
802
803
804
805
806
807
808
809
810
811
812
813
814
815
816
817
818
819
820
821
822
823
824
825
826
827
828
829
830
831
832
833
834
835
836
837
838
839
840
84

Query Match 3.4%; Score 41.2; DB 1; Length 1894;

Qy	1	CGGCGCCCTGGCCTTCGCGTCATCTTTTCCGTTCTCTCGACACTGTGACAAAGAGTGGC	70
Db	475	CTGCTCATATGTCGGGCTCCACACTCCCTCGAGCTATTGTCCAGGCTCTTGTCATCC	416
Qy	71	GCGCGCGCGCGCGCCCTCCCTCCGCGGGGCGCCGGAGGTAGAAAGTCAGTGCACCA	130
Db	415	GTCCTGGGCATCTTCCGACCCCTTCCCGGGGCTGTGCTGGCGTTCCAGCTATTGGACGC	356
Qy	131	GCCCCACCGCGCTGCTTGAGCCCTCGGCACCGCGGACGGGAGTCTGAGGTTGGG	190
Db	355	TATGTGTGCTGCTGCTTGCGGCTTGAAACCCGAGCCCCACGSAACAGACMACTGT	296
Qy	191	GACGCTCTGAGGAGAGGGGAAACGCGGCTCGAGCTTGGGGGGGCG--GACCGGACTGGG	248
Db	295	CGTGTCTCCGAGGCTGACCGTCAACGAGAGCGCGGAGTGTGATCCGGGACCGAACCGGG	236

QY 249 GCCGGGCTAGGCTCTGAGAAAGGCCCGGAGAGAG 283
DB 235 ACCGAGCCGGTGCCTGGGATGATGATCCGGGAGAGG 201

RESULT 6

US-08-615-170-18/c
Sequence 18, Application US/08615170
Patent No. 5776776

GENERAL INFORMATION:
APPLICANT: ORDAHL, Charles P.
APPLICANT: AZAKI, Anthony
APPLICANT: MAR, Janet H.
APPLICANT: PARANCE, Iain K.G.
APPLICANT: HALL, Deborah E.
APPLICANT: STEWART, Alexandre F.R.
APPLICANT: LARKIN, Sarah B.
TITLE OF INVENTION: DTER-1 ISOFORMS AND USES THEREOF
NUMBER OF SEQUENCES: 32
CORRESPONDENCE ADDRESS:
ADDRESSEE: Townsend and Townsend Kourie and Crew
STREET: Stewart Street Tower, One Market Plaza
CITY: San Francisco
STATE: California
COUNTRY: US
ZIP: 94105-1493

COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/615,170
FILING DATE:
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/01526
FILING DATE: 06-FEB-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 08/191,493
FILING DATE: 04-FEB-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Heslin, James M.
REGISTRATION NUMBER: 29,541
REFERENCE/DOCKET NUMBER: 2307U-053120
TELECOMMUNICATION INFORMATION:
TELEPHONE: (415) 326-2400
TELEFAX: (415) 326-2422
INFORMATION FOR SEQ ID NO: 18:
SEQUENCE CHARACTERISTICS:
LENGTH: 1897 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: cDNA

US-08-615-170-18

Query Match 3.4%; Score 41.2; DB 1; Length 1897;
Best Local Similarity 48.4%; Pred. No. 0.077;
Matches 133; Conservative 3; Mismatches 137; Indels 2; Gaps 1;

QY 11 CGGCGCGGTGGCTGCTGCTTCCTTCTCTCGAGCTCTCAAAAGAGTCCG 70
DB 475 CTGCTCAATGTCGGGCTCCACATCCCTCGGCTGATGTCAGGCTCTTGTCCATCCC 416
QY 71 GCGCGCGCGCGCGCGCGCTCCCTCGGCTGGGCGCGGAGGTAGAAAAGTACGTCCACA 130
DB 415 GTCTGTGCGCATTTCCCGCCCTCCCGGAGGCTGCTGCTGAGGCTTCCAGCTTTGAGACC 356
QY 131 GCCGACCGCGGCTGCTGAGCCCTGGGACGCGGAAACGGAGGAGTGTAGAGGTTGGG 190

DB 355 TATGTGCTGCTGCTCTGCTGCTGCTGAGGCCCGGAGCCCAAGACACAGAACTGCT 296
QY 191 GAGCTGTGTAGAGGAGGAGAAACAGCCGCTGAGCTGAGGCGGGC--GGACCGACTGAG 248
DB 295 CCGTGTCCGAGAGGCTGAGCCGKCCACCGGAGCCCGGAGTGTGCTCCGAGCCGACCGG 236
QY 249 GCCGGGCTAGGCTCTGAGAAAGGCCCGGAGAGAG 283
DB 235 ACCGAGCCGGTGCCTGGGATGATGATCCGGGAGAGG 201

RESULT 7

US-09-060-756-4
Sequence 4, Application US/09060756
Patent No. 6183957

GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Buchrieser-Brosch, Roland
APPLICANT: Gordon, Stephen
APPLICANT: Billault, Alain
TITLE OF INVENTION: METHOD FOR ISOLATING A POLYNUCLEOTIDE OF INTEREST FROM
TITLE OF INVENTION: THE GENOME OF A MYCOBACTERIUM USING A BAC-BASED DNA
FILE REFERENCE: 3495-0169
CURRENT APPLICATION NUMBER: US/09/060,756
CURRENT FILING DATE: 1998-04-16
NUMBER OF SEQ ID NOS: 743
SOFTWARE: Patentin Ver. 2.0
SEQ ID NO 4
LENGTH: 1280
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
US-09-060-756-4

Query Match 3.3%; Score 40.8; DB 3; Length 1280;
Best Local Similarity 47.0%; Pred. No. 0.081;
Matches 126; Conservative 0; Mismatches 142; Indels 0; Gaps 0;

QY 38 GCGGTCTCTGAGCTGTCACAAAGATGCGCGCGCGCGCCCTCTCCCG 97
DB 523 GCGGCTAGCGCAAGGCTGCTGCTGCGCAGCGCGCGCGCGCGCGCGGATTTGGT 582
QY 98 TGGGCGCGGAGGTAGAAAAGTCACTGTCACAGCCCGACCGGCTCTGTAGCCCTGG 157
DB 583 TTCTCTGCTGGGACCGCGCGCGCGCGCGCGCTGTCACAGCGCGCGG 642
QY 158 GCAAGCGGAGCGGAGGAGTGTAGGCTTGGGAGCATCTGTAGAGGAGGAGACAGCG 217
DB 643 GCGGCGGCTTCCGCGGCTTCCGACCGCGGCTGCTGAGGCGCGGCAATGCC 702
QY 218 CTGAGCTTGGGCGGCGGCGGACCGGACTGCGGCGGAGTGAAGCTTGAAGAGGCGCGG 277
DB 703 GCGTGGCTGGGCTTCCGCGGCGGCGCGGCGGCGGATCGCGGATCGCTTAACCTAACG 762
QY 278 AGAGAGTGGCTTGTGACGAACCTGAG 305
DB 763 GCGCGCGGTGGAAACGCGGACCGCGG 790

RESULT 8

US-09-670-314-4
Sequence 4, Application US/09670314
Patent No. 6492506

GENERAL INFORMATION:
APPLICANT: Cole, Stewart
APPLICANT: Buchrieser-Brosch, Roland
APPLICANT: Gordon, Stephen
APPLICANT: Billault, Alain
TITLE OF INVENTION: METHOD FOR ISOLATING A POLYNUCLEOTIDE OF INTEREST FROM
TITLE OF INVENTION: THE GENOME OF A MYCOBACTERIUM USING A BAC-BASED DNA
FILE REFERENCE: 3495-0169

APPLICANT: WEI, Ming-Hui et al
TITLE OF INVENTION: ISOLATED HUMAN PHOSPHODIESTERASE
TITLE OF INVENTION: PROTEINS, NUCLEIC ACID MOLECULES ENCODING HUMAN
FILE REFERENCE: C1001063
CURRENT FILING DATE: 2001-01-05
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 3
LENGTH: 111282
TYPE: DNA
ORGANISM: Human
FEATURE:
NAME/KEY: misc_feature
LOCATION: (1)...(111282)
OTHER INFORMATION: n = A,T,C or G
US-09-754-250-3

Query Match 3.2%; Score 39.2; DB 4; Length 111282;
Best Local Similarity 50.5%; Pred. No. 2.7;
Matches 95; Conservative 0; Mismatches 93; Indels 0; Gaps 0;

QY 102 CCGGAGGTAGAGAAAGTGTGACAGCCCGAGCCGCTGCTGAGCCCTGAGCAG 161
DB 39453 CCAAGGCGAGACAGAAAGCGGGTGAACGCGCGGTGTCGGGTGAGGATCCG 39512
QY 162 GCGGAAAGGAGGAGTCTGAGGTTGGGACGCTGTGAGGAGGAGGAAACCGCTCG 221
DB 39513 ACGGCGGAGAGGTGCGGTCCGCGGTGCGGAGCACTAGCGGAGCGGCGCGG 39572
QY 222 AGGCTGGGCGGCGGAGCGGAGTGGGCGGTGCTGTGAAAGGCGCGGAGAG 281
DB 39573 GCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 39632
QY 282 AGGTGGCG 289
DB 39633 CTGTGCGG 39640

RESULT 12
US-09-252-991A-5281/C
Sequence 5281, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 5281
LENGTH: 723
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5281

Query Match 3.2%; Score 39; DB 4; Length 723;
Best Local Similarity 47.1%; Pred. No. 0.2;
Matches 120; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

QY 8 GTCCGGGCGGCGCTCGGCTCATCTTGCCTCTCTCGGACCTGCACAAAGAGT 67
DB 571 GCCCAGAGGCGCGCGCGCGCGCGCGCGCGAGATGTCGCGACCGCTCCGCGGC 512
QY 68 CCGCGCGCGCGCGCGCGCGCGCTCTCTCGGTGCGCGCGGAGGTAGAGAAATCATGTC 127
DB 511 GATGGCAGCGCGAGGCGCGCGCGCGCTTCACAGAGTAGTAGATGCTCGAACCC 452

QY 128 ACAGCCGACCGCGCTGCTGTGAGCCCTGAGCAGCGGAAACGAGGAGTCTGAGGTT 187
DB 451 CTGGCCTATGAGGAGCGGCTCCCGCGCGAGCCCTGCTGCGGCGCGCGCGAGG 392
QY 188 GGGACGCTGTGTAGAGGAGGAGGAAACACCCCTGAGCTGTGGGCGGCGGACCGACTGG 247
DB 391 CTGGGCTGCGGAGCGGCTATGACAGCGGCTCTCTGCAACAGCTCGCGCGCGCTG 332
QY 248 GCGCGGGGTAGGCTC 262
DB 331 GCGCAGCGCGGTTTC 317

RESULT 13
US-09-252-991A-5345/C
Sequence 5345, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:

APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788
PRIOR FILING DATE: 1998-02-18
PRIOR APPLICATION NUMBER: US 60/094,190
PRIOR FILING DATE: 1998-07-27
NUMBER OF SEQ ID NOS: 33142
SEQ ID NO 5345
LENGTH: 744
TYPE: DNA
ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-5345

Query Match 3.2%; Score 39; DB 4; Length 744;
Best Local Similarity 47.1%; Pred. No. 0.2;
Matches 120; Conservative 0; Mismatches 135; Indels 0; Gaps 0;

QY 8 GTCCGGGCGGCGCTCGGCTCATCTTGCCTCTCTCGGACCTGTCAAAAGAGT 67
DB 602 GCCCAGAGGCGCGCGCGCGCGCGCGCGCGAGATCTTCGAGCAGCGCTCCGCGGC 543
QY 68 CCGCGCGCGCGCGCGCGCGCTCTCTCGGTGCGCGCGGAGGTAGAGAAATCATGTC 127
DB 542 GATGGCAGCGCGAGGCGCGCGCGCGCTTCACAGAGTAGTAGATGCTCGAACCC 483
QY 128 ACAGCCGACCGCGCTGCTGTGAGCCCTGAGCAGCGGAAACGAGGAGTCTGAGGTT 187
DB 482 CTGGCCTATGAGGAGCGGCTCCCGCGCGCAACCCCTGTGCTGCGCGCGCGCGAGG 423
QY 188 GGGACGCTGTGTAGAGGAGGAGGAAACACCGCTGAGCTGTGGGCGGCGGACCGACTGG 247
DB 422 CTGGGCTGCGGAGCGGCTATGACAGCGGCTCTCTGCAACAGCTCGCGCGCGCTG 363
QY 248 GCGCGGGGTAGGCTC 262
DB 362 GCGCAGCGCGGTTTC 348

RESULT 14
US-09-252-991A-5307/C
Sequence 5307, Application US/09252991A
Patent No. 6551795
GENERAL INFORMATION:
APPLICANT: Marc J. Rubenfield et al.
TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
FILE REFERENCE: 107196.136
CURRENT APPLICATION NUMBER: US/09/252,991A
PRIOR FILING DATE: 1999-02-18
PRIOR APPLICATION NUMBER: US 60/074,788

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 4, 2004, 05:01:37 ; Search time 3064 Seconds
(without alignments)
11870.802 Million cell updates/sec

Title: US-10-066-500-8
Perfect score: 1218
Sequence: 1 cccacgcgtccgcgcgcgtg.....agctatgattcttattagag 1218

Scoring table: IDENTITY NUC
Gapop 10.0, Gapext 1.0

Searched: 27513289 seqs, 14931090276 residues
Total number of hits satisfying chosen parameters: 55026578

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : EST:
1: em_eebba:*
2: em_eebhu:*
3: em_eebin:*
4: em_eebmu:*
5: em_eebcov:*
6: em_eebpl:*
7: em_eebtr:*
8: em_eebtr:*
9: gb_eeb1:*
10: gb_eeb2:*
11: gb_eeb3:*
12: gb_eeb4:*
13: gb_eeb5:*
14: gb_eeb6:*
15: em_eebin:*
16: em_eebin:*
17: em_ges_hum:*
18: em_ges_inv:*
19: em_ges_pln:*
20: em_ges_vrt:*
21: em_ges_fun:*
22: em_ges_mam:*
23: em_ges_mus:*
24: em_ges_pro:*
25: em_ges_rod:*
26: em_ges_phg:*
27: em_ges_vrl:*
28: gb_ges1:*
29: gb_ges2:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length DB	ID	Description
1	727	59.7	801	12	BG772050 602721686
2	688	56.5	781	14	CD109369 AGNCOURT
3	686.8	56.4	701	14	CB295705 12B22056
4	683.2	56.1	760	13	BG576035 UT-H-E21-

Result No.	Score	Query Match	Length DB	ID	Description
5	602.8	49.5	3391	11	AK032416 Mus muscu
6	582.8	47.8	591	14	CB295706 12B22056
7	550.4	45.2	892	12	BG772050 602721686
8	535.4	44.0	722	12	BG772050 602721686
9	505.4	41.5	711	12	B1666950 603291808
10	505.4	41.5	835	13	B1666950 603291808
11	505.4	41.5	857	13	B1666950 603291808
12	505.4	41.5	871	13	B1666950 603291808
13	503.8	41.4	670	12	BG772050 602721686
14	503.8	41.4	727	12	BG772050 602721686
15	503.8	41.4	834	12	B1666950 603291808
16	499.4	41.0	588	11	B0072529 1m4403.y
17	498	40.9	1821	11	AK043522 Mus muscu
18	493.4	40.5	700	12	BG699229 602678896
19	483.2	39.7	692	9	AT253442
20	482.8	39.6	611	14	CD690089 EST6812 h
21	478.6	39.3	899	10	BF937383 602257026
22	478.2	39.3	742	10	BE882864 601509268
23	477.8	39.2	908	14	CA978792 AGNCOURT
24	477.6	39.2	623	13	BX482659 DXF2P6860
25	464.6	38.1	789	12	BG620045 602618260
26	456.8	37.5	921	12	BM010902 603634540
27	440.4	36.2	556	12	BG772050 602721686
28	436.8	35.9	562	14	CB183856 AGNCOURT
29	434.4	35.7	579	14	CD691874 EST8429 h
30	430.8	35.4	560	9	AL703545
31	428.4	35.2	531	12	BG719220 602690279
32	421.6	34.6	893	13	BQ899613 AGNCOURT
33	405.6	33.3	745	12	B1768690 603057251
34	397.8	32.7	518	14	CA392843 6029609.y
35	388.2	31.9	936	10	BF781079 602106720
36	387.2	31.8	1939	11	AK076799 Mus muscu
37	384.8	31.6	629	13	BY729431 BY729431
38	382	31.4	510	29	CG542955 EST1138142
39	380.2	31.2	420	13	BX487789 DXF2P686B
40	380	31.2	394	10	AN296811 UI-H-BW0-
41	376.4	30.9	405	9	AA373599 EST85637
42	366	30.0	819	9	AU080966 AU080966
43	365.6	30.0	475	13	BX529453 BX529453
44	360.2	29.6	488	29	CG608250 OST288186
45	352	28.9	723	12	BG165215 602344087

ALIGNMENTS

RESULT 1
LOCUS BG772050 801 bp mRNA linear EST 15-MAY-2001
DEFINITION 602721686F1 NIH_MGC_97 Homo sapiens cDNA clone IMAGE:4838565 5',
mRNA sequence.
ACCESSION BG772050
VERSION BG772050.1 GI:14082703
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE NIH-MGC http://mgi.nci.nih.gov/
AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
TITLE Unpublished (1999)
JOURNAL Contact: Robert Strausberg, Ph.D.
COMMENT Email: cgabs-r@mail.nih.gov
Tissue Procurement: Miklos Palcovits, M.D., Ph.D.
CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiroki
Toshiyuki and Piero Carninci (RIKEN)
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LLM10772 row: 1 column: 22

OY 297 GAACCTGAGAAACAGCCGAGAGGTTTCCACCGAGGCCCGGCTTGAGGATCGAAGAG 356
 DB 265 GAACCTGAGAAACAGCCGAGAGGTTTCCACCGAGGCCCGGCTTGAGGATCGAAGAG 324
 OY 357 GTTCCCTAGAGAGGAGGTTTCCCTTTTCGGGGGCTCTTCCAGAGAGGTTCTTGGGGGT 416
 DB 325 GTTCCCTAGAGAGGAGGTTTCCCTTTTCGGGGGCTCTTCCAGAGAGGTTCTTGGGGGT 384
 OY 417 CGCCCTTGTGAGAGGAGGCTGAGGCTAACAGGGCCGAGAGCTGATGATGTCAGATC 476
 DB 385 CGCCCTTGTGAGAGGAGGCTGAGGCTAACAGGGCCGAGAGCTGATGATGTCAGATC 444
 OY 477 CCCTGTAGTATATATGTTGGGAAATAGCTCTGCACTTTTGTGCAATTCAGTTGTTAA 536
 DB 445 CCCTGTAGTATATATGTTGGGAAATAGCTCTGCACTTTTGTGCAATTCAGTTGTTAA 504
 OY 537 AAACAAATAGAGATGAAATTTCTCACTCCAGGTTTAAACAGTCTTGGAAAGTGA 596
 DB 505 AAACAAATAGAGATGAAATTTCTCACTCCAGGTTTAAACAGTCTTGGAAAGTGA 564
 OY 597 AAACCTAATATATGATCGTCTTTGGTGGCCGCTGTTCTTAGCAGAGAGAGCCCTTGGCC 656
 DB 565 AAACCTAATATATGATCGTCTTTGGTGGCCGCTGTTCTTAGCAGAGAGAGCCCTTGGCC 624
 OY 657 AGGCTCTGTTGTTGACTCTCGAAGAGCATAGCCCACTTCTTAGGAGCTGAGAGTGC 715
 DB 625 AGGCTCTGTTGTTGACTCTCGAAGAGCATAGCCCACTTCTTAGGAGCTGAGAGTGC 684
 OY 716 GCTACTACCAT-GGGTAATTCCTGATCTG-CGAGATGACAGTGAACAGATGACAGT 773
 DB 685 GCTACTACCATGAGGTAATTCCTGATCTGCGCCGAGAGTGAACAGATGACAGT 744
 OY 774 -TTGACACCCCAACAGCAACAGGCC 796
 DB 745 TTGACACCCCAACAGCAACAGGCC 768

RESULT 3
 CB295705 701 bp mRNA linear EST 28-FEB-2003
 LOCUS 12822056 rev_1_E02_r_007.ab1 Chimpanzee brain library Koo's Pan
 DEFINITION troglodytes cDNA clone 12822056_rev_1_E02_r_007.ab1 5', mRNA
 sequence.
 ACCESSION CB295705
 VERSION CB295705.1 GI:28621135
 KEYWORDS EST.
 SOURCE Pan troglodytes (chimpanzee)
 ORGANISM Pan troglodytes
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Hominoidea; Pan.
 1 (bases 1 to 701)
 Hellmann, I., Zollner, S., Enard, W., Ebersberger, I., Nickel, B. and
 Paabo, S.
 Selection on human genes as revealed by comparisons to chimpanzee
 cDNA
 Genome Res. (2003) In press
 Contact: Paabo S
 Evolutionary Genetics
 Max-Planck-Institute for evolutionary Anthropology
 Deutscher Platz 6, 04103 Leipzig, Germany
 Tel: +49-(0)-341-3550 500
 Fax: +49-(0)-341-3550 555
 Email: paabo@eva.mpg.de
 Seq primer: M13 reverse.
 FEATURES
 source location/Qualifiers
 1..701
 /organism="Pan troglodytes"
 /mol_type="mRNA"
 /db_xref="taxon:9598"
 /clone="12822056_rev_1_E02_r_007.ab1"
 /sex="male"
 /tissue_type="brain, presumably cortex"
 /dev_stage="adult"

/lab_host="Epilcurian Coil (TM) XL-10-Gold"
 /clone_lib="Chimpanzee brain library Koo's"
 /note="Vector: pUC1; Site 1: SfiI-A; Site 2: SfiI-B; The
 library was prepared using the SMART cDNA library
 construction kit (Clontech), doing only primer extension,
 but not PCR amplification of the cDNA. The only deviation
 from the published protocol was that we cloned the cDNA
 into a plasmid vector."

Query Match 56.4%; Score 686.8; DB 14; Length 701;
 Best Local Similarity 98.7%; Pred. No. 4,1e-164;
 Matches 688; Conservative 0; Mismatches 5; Indels 0; Gaps 0;

OY 261 TCTGAAAGAGGCGCGGAGAGAGTGGCGTTGTGAGAACTGAGAAACAGCCGAGAGT 320
 DB 1 TCTGAAAGAGGCGCGGAGAGAGTGGCGTTGTGAGAACTGAGAAACAGCCGAGAGT 60
 OY 321 TTTCACCGAGGCGCGGCTTGAGGATCTGAAAGGTTCTTGAAGAGGAGTCCCTC 380
 DB 61 TTTCACCGAGGCGCGGCTTGAGGATCTGAAAGGTTCTTGAAGAGGAGTCCCTC 120
 OY 381 TTTCGGGGGCTCTCAACAGAGAGTCTTGGGGGCTGCGCTTCTGAGAGGCTGCGCT 440
 DB 121 TTTCGGGGGCTCTCAACAGAGAGTCTTGGGGGCTGCGCTTCTGAGAGGCTGCGCT 180
 OY 441 AACAGGGCCGAGAACTGCACTTGATGTCAGAAATCCCTGATGATTAATGTTGGAA 500
 DB 181 AACAGGGCCGAGAACTGCACTTGATGTCAGAAATCCCTGATGATTAATGTTGGAA 240
 OY 501 TAAGCTGTGCACTTTCTTGGCATTCAGTGTGTAACCAATAGATGATCAATTCCTC 560
 DB 241 TAAGCTGTGCACTTTCTTGGCATTCAGTGTGTAACCAATAGATGATCAATTCCTC 300
 OY 561 AACTCCAGGTTATGAAACAGTACTTGAAATCTGAAATCTAATGATGCTCTTGG 620
 DB 301 AACTCCAGGTTATGAAACAGTACTTGAAATCTGAAATCTAATGATGCTCTTGG 360
 OY 621 GTTGGGCGGTTCTTGAAGAGAGAGAGGCTGGCCAGGCTGTGTTGAGCTGAGAG 680
 DB 361 GTTGGGCGGTTCTTGAAGAGAGAGAGGCTGGCCAGGCTGTGTTGAGCTGAGAG 420
 OY 681 AGCAGATAGCCCACTTCTAGGAGCTGAGAGTGGCCCTTCTACATGAGGTAATTCCTGTA 740
 DB 421 AGCAGATAGCCCACTTCTAGGAGCTGAGAGTGGCCCTTCTACATGAGGTAATTCCTGTA 480
 OY 741 TCTGCCGAGATGACAGTGAACAGATGACAGTGTGACACCCCAACAGCAACAGCCGAGTA 800
 DB 481 TCTGCCGAGATGACAGTGAACAGATGACAGTGTGACACCCCAACAGCAACAGCCGAGTA 540
 OY 801 ACAGTCAGTACCCACTGCTGACACAGAGAGCCCAACAGGAGACCTGTCTGGCCACCAA 860
 DB 541 ACAGTCAGTACCCACTGCTGACACAGAGAGCCCAACAGGAGACCTGTCTGGCCACCAA 600
 OY 861 GAGAGGGCCGAGAGAGCTCTAGGCCAAGAGAGAAACAAATGTGATGGCTAGTGT 920
 DB 601 GAGAGGGCCGAGAGAGCTCTAGGCCAAGAGAGAAACAAATGTGATGGCTAGTGT 660
 OY 921 TGAGACACTGGCAGTATACGAGCTCTGTGATTA 957
 DB 661 TGAGACACTGGCAGTATACGAGCTCTGTGATTA 697

RESULT 4
 B0576035/c 760 bp mRNA linear EST 19-JUN-2002
 LOCUS B0576035
 DEFINITION UT-H-E21-bhg-c-03-0-UI-61 NCI CGAP chr2 Homo sapiens cDNA clone
 UT-H-E21-bhg-c-03-0-UI 3', mRNA sequence.
 ACCESSION B0576035
 VERSION B0576035.1 GI:21479352
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens

REFERENCE
1 (bases 1 to 760)
NCI-CCAP <http://www.ncbi.nlm.nih.gov/ncicgap>.
National Cancer Institute, Cancer Genome Anatomy Project (CGAP),
Tumor Gene Index
Unpublished (1997)
Contact: Robert Strausberg, Ph.D.
Email: cgaps-remail.nih.gov
Tissue Procurement: Dr. Steven Gitelis/ Rush Presbyterian, Dept. of
Orthopedics
CDNA library preparation: Dr. M. Bento Soares, University of Iowa
DNA Sequencing by: Dr. M. Bento Soares, University of Iowa
Clone Distribution: Clone distribution information can be obtained
from Dr. M. Bento Soares, bento-soares@iowa.edu
Seq primer: M13 FORWARD
POLY(A)=Yes

FEATURES
source
Location/Qualifiers
1..760
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="UI-H-EZ1-dbg-c-03-0-UI"
/ribose_type="chondrosarcoma Grade II"
/dev_stage="Adult"
/lab_host="DH10B (Life Technologies)"
/note="Organ: Left Pelvis; Vector: pT7T3-Pac (Pharmacia)
with a modified polylinker; Site 1: EcoR I; Site 2: Not I;
NCI CGAP Ch2 is a normalized cDNA library containing the
following tissue(s): Chondrosarcoma Grade II. The library
was constructed according to Bonaldo, Lemon and Soares,
Genome Research, 6:791-806, 1996. First strand cDNA
synthesis was primed with an oligo-dT primer containing a
Not I site. Double stranded cDNA was ligated to an EcoR I
adaptor, digested with Not I, and cloned directionally
into pT7T3-Pac vector. The oligonucleotide used to prime
the synthesis of first-strand cDNA contains a library tag
sequence that is located between the Not I site and the
(dT)18 tail. The sequence tag for this library is
TGATCAGCT.
TAG_TISSUE=grade-2-chondrosarcoma
TAG_LIB=UI-H-EZ1
TAG_SEQ=ATCTAATATG"

ORIGIN

Query Match 56.1%; Score 683.2; DB 13; Length 760;
Best Local Similarity 98.9%; Pred. No. 3.5e-163;
Matches 696; Conservative 0; Mismatches 7; Indels 1; Gaps 1;
515 TTCTTGGGCACTAGTGTAAACAAATAGATGCAATTCCTCACTCCAGGTTATG 574
721 TTCTTGGGCACTAGTGTAAACAAATAGATGCAATTCCTCACTCCAGGTTATG 663
575 AAAACGATCTTGAAGAACTGAAGAACTAATGATGCTTTGGCCGCTGTTTC 634
662 AAAACGATCTTGAAGAACTGAAGAACTAATGATGCTTTGGCCGCTGTTTC 603
635 TTAGCGAGAGAAAGCCTTGGCCGAGGTGCTGTGACCTCGAAGAGACATTAAGCCAC 694
602 TTAGCGAGAGAAAGCCTTGGCCGAGGTGCTGTGACCTCGAAGAGACATTAAGCCAC 543
695 TTCTTGGGCACTAGTGTAAACAAATAGATGCAATTCCTCACTCCAGGTTATG 754
542 TTCTTGGGCACTAGTGTAAACAAATAGATGCAATTCCTCACTCCAGGTTATG 483
755 AGTGAACAGATACAGTGTGACACCCCAACAGCAACAGCCGAGAAACGTGAGATCCC 814
482 AGTGAACAGATACAGTGTGACACCCCAACAGCAACAGCCGAGAAACGTGAGATCCC 423
815 ACTGCTGACACAGAGACCAACAGCGGACCCCTGTTGGCCACCAAGAGAGGCGGAGGA 874

Db 422 ACTGCTGACACAGAGACCAACAGCGGACCCCTGTTGGCCACCAAGAGAGGCGGAGGA 363
Qy 875 CCTCATGAGCCAG 934
Db 362 CCTCATGAGCCAG 303
Qy 935 GTAATAGGAGCTTGTGATTAATGATGATGATGATGATGATGATGATGATGATGATG 994
Db 302 GTAATAGGAGCTTGTGATTAATGATGATGATGATGATGATGATGATGATGATGATG 243
Qy 995 AAGTGTGTCGCCGGAACCATGATGATGATGATGATGATGATGATGATGATGATGATG 1054
Db 242 AAGTGTGTCGCCGGAACCATGATGATGATGATGATGATGATGATGATGATGATGATG 183
Qy 1055 CCAAGCCTGTGCTCAAGGCGAAGAGAGATTTTAATGCTCGGCTATGAGCAGATG 1114
Db 182 CCAAGCCTGTGCTCAAGGCGAAGAGAGATTTTAATGCTCGGCTATGAGCAGATG 123
Qy 1115 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 1174
Db 122 AATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATG 63
Qy 1175 TTCTGTAGCAG 1218
Db 62 TTCTGTAGCAG 19
RESULT 5
AK032416
LOCUS
DEFINITION
MUS musculus adult male olfactory brain cDNA, RIKEN full-length
enriched library, clone:6430540K8 product:hypothetical sp1a and
the Ryanodine Receptor (SPRY)/SPRY domain/RING finger containing
protein, full insert sequence.
ACCESSION
AK032416
VERSION
AK032416.1 GI:26328234
KEYWORDS
HTC; CAP trapper.
SOURCE
MUS musculus (house mouse)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
REFERENCE
1
Carninci, P. and Hayashizaki, Y.
High-efficiency full-length cDNA cloning
Meth. Enzymol. 303, 19-44 (1999)
MEDLINE
99279253
PUBMED
10349636
REFERENCE
2
Carninci, P., Shibata, Y., Hayatsu, N., Sugahara, Y., Shibata, K.,
Itoh, M., Komno, H., Okazaki, Y., Muramatsu, M., and Hayashizaki, Y.
Normalization and subtraction of cap-trapper-selected cDNAs to
prepare full-length cDNA libraries for rapid discovery of new genes
Genome Res. 10 (10), 1617-1630 (2000)
TITLE
JOURNAL
MEDLINE
20499374
PUBMED
11042159
REFERENCE
3
Shibata, K., Itoh, M., Aizawa, K., Nagaoaka, S., Sasaki, N., Carninci, P.,
Komno, H., Akiyama, J., Nishi, K., Kitsuai, T., Tashtiro, H., Itoh, M.,
Sumi, N., Ishii, Y., Nakamura, S., Hazama, M., Nishibe, T., Harada, A.,
Yamamoto, R., Matsumoto, H., Sakaguchi, S., Ikegami, T., Kashiwagi, K.,
Fujiwara, S., Inoue, K., Togawa, Y., Izawa, M., Ohara, E., Watanabe, M.,
Okazaki, Y., Ishikawa, T., Ozawa, K., Tanaka, T., Matsunaga, S., Kawai, J.,
Okazaki, Y., Muramatsu, M., Inoue, Y., Kira, A., and Hayashizaki, Y.
RIKEN integrated sequence analysis (RISA) system-384-format
sequencing pipeline with 384 multicapillary sequencer
Genome Res. 10 (11), 1757-1771 (2000)
TITLE
JOURNAL
MEDLINE
20530913
PUBMED
11076861
REFERENCE
4
The RIKEN Genome Exploration Research Group Phase II Team and the
FANTOM Consortium.
Functional annotation of a full-length mouse cDNA collection
Nature 409, 685-690 (2001)

REFERENCE	AUTHORS	TITLE	JOURNAL	AUTHORS	COMMENT	FEATURES	source
5	The FANTOM Consortium and the RIKEN Genome Exploration Research Group Phase I & II Team..	Analysis of the mouse transcriptome based on functional annotation of 60,770 full-length cDNAs	Nature 420, 563-573 (2002)	6 (bases 1 to 3391)			
	Adachi, J., Aizawa, K., Akimura, T., Arakawa, T., Bono, H., Carninci, P., Fukuda, S., Furuno, M., Hanagaki, T., Hara, A., Hashizume, M., Hayashida, K., Hayatsu, N., Hiramoto, K., Hirooka, T., Hirozane, T., Hoti, F., Imocani, K., Ishii, Y., Itoh, M., Kagawa, I., Kasukawa, T., Kato, H., Kawai, J., Kojima, Y., Kondo, S., Konno, H., Kouda, M., Koya, S., Kurihara, C., Matsuyama, T., Miyazaki, A., Murata, M., Nakamura, M., Nishii, K., Nomura, K., Numasaki, R., Ohno, M., Ohsato, N., Okazaki, Y., Saito, R., Saitoh, K., Sakai, C., Sakai, K., Sakazume, N., Sano, H., Sasaki, D., Shibata, K., Shingawa, A., Shiraki, T., Sogabe, Y., Tagami, M., Tagawa, A., Takahashi, F., Takaku-Akahata, S., Takeda, Y., Tanaka, T., Tomaru, A., Toya, T., Yasunishi, A., Muramatsu, M. and Hayashizaki, Y.	Submitted (16-JUL-2001) Yoshihide Hayashizaki, The Institute of Physical and Chemical Research (RIKEN), Laboratory for Genome Exploration and Research Group, RIKEN Genomic Sciences Center (GSC), RIKEN Yokohama Institute; 1-7-22 Suehiro-cho, Tsurumi-Ku, Yokohama, Kanagawa 230-0045, Japan (E-mail: genome-res@res.riken.go.jp, URL: http://genome.gsc.riken.go.jp/, Tel: 81-45-503-9222, Fax: 81-45-503-9216)	CDNA library was prepared and sequenced in Mouse Genome Encyclopedia Project of Genome Exploration Research Group in Riken Genomic Sciences Center and Genome Science Laboratory in RIKEN Division of Experimental Animal Research in Riken contributed to prepare mouse tissues.	Please visit our web site for further details. URL: http://genome.gsc.riken.go.jp/ URL: http://fantom.gsc.riken.go.jp/ Location/Qualifiers	1. .3391 /organism="Mus musculus" /mol_type="mRNA" /strain="C57BL/6J" /db_xref="FANTOM DB:6430540K08" /db_xref="MGI:2355918" /db_xref="taxon:10090" /clone="6430540K08" /sex="male" /tissue_type="olfactory brain" /clone_id="RIKEN full-length enriched mouse cDNA library" /dev stage="adult" 606_..2336 /note="unnamed protein product; hypothetical Sp1a and the Ryanodine Receptor (SPRY)/SPRY domain/RING finger containing protein (InterPro IPR003877, InterPro IPR003878, InterPro IPR001841, evidence: putative" /codon start=-1 /protein_id="BAC27858.1" /db_xref="GI:26328235" /translation="MTVFGMAVFLASRLGGQLITLBEHIAHLIGTTGARTMNGSICRDSGADVDVTDQQAENSTVTPLASRQPRDPVPPRRGRPHPRKKNQVDDLVLDIAVIRLVDNDQSPYSMITLHMAWDEGMVDVYOSLIVLEPDLGPVAVDTLLDECPLEPTCDALQKTEILNTNGEVAACDQSGHPAKRNTSAVIGCLAEKLPAPATLGLAPGLIEYLQCLQKSHPTNLPALIAEKPAQNSENKLTISESISPRLTATLPLMAADPYLKRQVGRCAQMSLDNLFLEKGRQLTYERKQDININRAMNSNDSEYLIKITIPMGHRCADASFEBSYRCIFCDVTGTYEYTVTSGVMQIGMARDESKFLANBEGYGDDETSFCAVDGCRQLIWNARKSPVHPQWKGSDTVGFLIDLNENQM.FLAKNDLPKROVSSYVSGEFAAASPMSSYQCGEFGARFPKPSNKRSTENDYVFLAEKIIILPKRRILALIKQVSIRENCCSLCCDEVAADTQLPKCGHSDLCMDCAQLETLQPCRKEIVISRIQISHTS"	49.5%; Score 602.8; DB 11; Length 3391; 80.3%; Pred No. 2.1e-142;	

	Matches	764; Conservative	0; Mismatches	167; Indels	21; Gaps	4
QY	11	CGGGCGCGTGGCGCTCGCGTCCATCTTTGGCGGTCTCTCGGACCTGTCACAAAAGAGTGC				70
Db	20	CAGTGCCTGTCCCGCGTCACTTTTACCGCTCTCTTGAGCTCTGCACAAAGATCGC				79
QY	71	GCCGCGCGCGCGCCCTCTCCCTCCGGTGGGCCCGGAGGTAGAGAAAGTCAGTGCCACA				130
Db	80	GCCGCTGTGCTGTCCTCTCCCTCCGGTGGGCCCGAGAGTATGTCAAGTCAAGTGCACA				139
QY	131	GCCCGAACCGGCGTGTCTGANG-----CCCTGGGACGCGGAAAGGGAGGGAGTCTGAGGG				185
Db	140	GCCCGAACCGGCGTGTCTGAGAAAGCCCTTGGGAGAGTGGCCGCGGAGGGAGCTTGAGGG				199
QY	186	TTGGGAGACGTCTGTGAGGAGGGGAAACAGCCGCTCGAGCTGGGCGCGGCGGACCGACT				245
Db	200	CTAGCGACGCGCTGTGAAGAGAGGGGACAGCCGCTGAAGGCTTGGGTGGAGAGACTGACT				259
QY	246	GGGGCGCGGGGTAGGCTTGTGAAGAGGCGCGGAGAGAGGTGGGCTTGTGTAAGACTGAG				305
Db	260	GGGGCGCTGGCCGCTCTCCGGGCAAGGGGTCTTGAAGAGGGTGGGCTTGAAGACTGGG				319
QY	306	AAACAGCCGAGAGGTTTTCACGAGAGGCGCGGCTTAGGGAATGTGAAGAGTCTCTAGA				365
Db	320	AAGAGCCCGGACACACTCTCTCGAGGCGCGGCTGAGAGCGCTGAAGCGTTCCTGG				379
QY	366	AGAGGAGTTCCTCTCTTGGGGGTCTCAACAAGAGTTCCTTGGGGGTGCGCTTCT				425
Db	380	AAGAGGAGTTCCTCTCTTGAAGGAGTCTTGAAGAGAGGTCTT--GGGGTCAACCTCC				437
QY	426	GAGAGGCTCGCGGTACAGAGGCCACAAACCTGCATTGAGATGTCAGAAATCCCTGAGT				485
Db	438	GAGAGAGC-----CGGCTAAGAACCTGCAGTGTATGGCCACACTTCCCAAGTGT				486
QY	486	TGATAAATGTTGGGAATAGCTGTGCAACTTTCCTTGGCATTCAGTTGTAAAAACAATA				545
Db	487	TGATAAATGTTGGAATAGCTGTGCACTTTCCTTCAGCATTCAGTTGTAAAAATGATA				546
QY	546	GGATGCAATTCCTCAACTCGAGGTATGAAAACAGTACTTTGGAAAACTGAAAACTTACT				605
Db	547	GAAATGCAAGT---TCAAGTCCACATTTATGAAAAAGTACTCGAAAAATGAAACTATCT				603
QY	606	AAATGATCGTCTTGGTTGGGCGCGTGTCTTAAAGAGACAGAGGCTTGGCCAGGGTGTG				665
Db	604	AGATGATTTGCTTTGGTTGGGCTGTGTTCTTTAGACAGAAAGCTTGTGCGGTTGCG				663
QY	666	TGTTAGCTCTGAGAGACATAGCCCACTTCTTAGGAGCTGAGGTTGCGGCTACTACA				725
Db	664	TGCTGACTCTTGAAGAGACATAGCCCACTATTTGGGAGCTACAGGTGCCACTCTCTACTA				723
QY	726	TGGGTATTTCTGTATTTGCCGAGATGACAGTGGAAAGATGACAGTGTGACACCCAAC				785
Db	724	TGGGTATTTCTGTATTTGCCGAGATGACAGTGGAGCAAGAGACAAATGTTGACCCAC				783
QY	786	AGCAACAGGCGGAGACAGTGCAGTACCACTGCTGACACAAAGAGCCAAACAGGAGCC				845
Db	784	AGCAACAGGCTGAGAAACAGTACAGTCTCTACTGCTGATGAGAGCCAACTCGGAGCC				843
QY	846	CTGTTCCGCCACCAAGAGGGGCGGAGACCTCATGAGCCAAAGAGAAAGAAACAATATG				905
Db	844	CTGTCGGGCTTCCAAAGAGAGGCGGAGAGCTCATGAGCCCAAGAGAAAGAAACAATATG				903
QY	906	TGATAGGAGTATGTTGGACACACTGCGAGTAAATACGACTCTTGATATTA				957
Db	904	TGATAGGAGTATGTTGCTGGAACACTGCGCGGTAAATACGAGTCTTGATATTA				955
RESULT 6						
LOCUS	CB295706	591 bp	mRNA	linear	EST 28-FEB-2003	
DEFINITION	12822056 rev.1 A02_r 005.ab1 Chimpazee brain library Xoots Pan troglodytes CDNA clone 12822056_rev.1 A02_r 005.ab1 5', mRNA sequence.					

ACCESSION CB295706 GI:28621136
 VERSION
 KEYWORDS EST
 SOURCE Pan troglodytes (chimpanzee)
 ORGANISM Pan troglodytes
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homidae; Pan.
 REFERENCE 1 (bases 1 to 591)
 AUTHORS Hellmann, I., Zollner, S., Enard, W., Ebersberger, I., Nickel, B. and Pabo, S.
 TITLE Selection on human genes as revealed by comparisons to chimpanzee cDNA
 JOURNAL Genome Res. (2003) In press
 COMMENT Contact: Pabo S
 Evolutionary Genetics
 Max-Planck-Institute for evolutionary Anthropology
 Deutscher Platz 6, 04103 Leipzig, Germany
 Tel: +49-(0)-341-3550 500
 Fax: +49-(0)-341-3550 555
 Email: pabo@eva.mpg.de
 Seq primer: M13 reverse.
 Location/Qualifiers
 1..591
 /organism="Pan troglodytes"
 /mol_type="mRNA"
 /db_xref="taxon:9598"
 /clone="12822056_rev_1_A02_r_005.ab1"
 /sex="male"
 /tissue_type="brain, presumably cortex"
 /dev_stage="adult"
 /lab_host="Epizurian Cell (TM) XL-10-gold"
 /clone_lib="Chimpanzee Brain Library Koo's"
 /note="Vector: pUC19, Site 1: SfiI-A, Site 2: SfiI-B, The library was prepared using the SMART cDNA library construction kit (Clontech), doing only primer extension, but not PCR amplification of the cDNA. The only deviation from the published protocol was that we cloned the cDNA into a plasmid vector."

ORIGIN
 Query Match 47.8%; Score 582.8; DB 14; Length 591;
 Best Local Similarity 99.3%; Pred. No. 1.4e-137;
 Matches 584; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

265 GAAAGGCGCGGAGAGAGAGGCGCTGTGACAGACCTGAGAAACAGCGGAGGTTTC 324
 4 GGANNCGCCCGGAGAGAGAGGCGCTGTGACAGACCTGAGAAACAGCGGAGGTTTC 63
 325 CACCGAGGCGCGGAGAGAGGCTGTGAGAGAGGTTCTTGAAGAGGAGGTTCCCTTTC 384
 64 CACCGAGGCGCGGAGAGGCTGTGAGAGAGGTTCTTGAAGAGGAGGTTCCCTTTC 123
 385 GGGGGTCTTCACCAAGAGAGGTTCTTGGGGGTCGCCCTTCAGAGAGGCTGGGGTAACA 444
 124 GGGGGTCTTCACCAAGAGAGGTTCTTGGGGGTCGCCCTTCAGAGAGGCTGGGGTAACA 183
 445 GGGCCAGAGAGGCTGCAATGATGTCAGAGATCCCTGTAGTATGATGTTGGGATAG 504
 184 GGGCCAGAGAGGCTGCAATGATGTCAGAGATCCCTGTAGTATGATGTTGGGATAG 243
 505 CTCTGCAACTTTTGGGCACTTCACTTTTAAACAAATAGAGCAATTCCTCAACT 564
 244 CTCTGCAACTTTTGGGCACTTCACTTTTAAACAAATAGAGCAATTCCTCAACT 303
 565 CCAGTTATGAAAGAGTACTTGAAAGTGAAGAACTACTTAATGATGCTTTGGTTG 624
 304 CCAGTTATGAAAGAGTACTTGAAAGTGAAGAACTACTTAATGATGCTTTGGTTG 363
 625 GGGCGTGTCTTGAAGAGAGAGGCTTGGCCAGGGTCTGTGTTGACTCTGAAAGAGA 684
 364 GGGCGTGTCTTGAAGAGAGAGGCTTGGCCAGGGTCTGTGTTGACTCTGAAAGAGA 423
 685 CATAGCCACTTCTAGAGAGAGGCTGAGAGTGGCGCTACTACAGTGGTAATTCCTGATATCG 744

Db 424 CATAGCCACTTCTAGAGAGAGGCTGAGAGTGTCTACTACATGAGGTAATTCCTGATATCG 483
 Oy 745 CCAGATGACAGTGAAGAGAGTGTGACACCCCAAGCAAGCCGAGAGACAG 804
 Db 484 CCAGATGACAGTGAAGAGAGTGTGACACCCCAAGCAAGCCGAGAGACAG 543
 Oy 805 TGAGTACCACTGCTGACACAGAGAGCCACAGGAGCCCTGTTTCG 852
 Db 544 TGAGTACCACTGCTGACACAGAGAGCCACAGGAGCCCTGTTTCG 591

RESULT 7
 BUI52634 892 bp mRNA linear EST 03-SEP-2002
 LOCUS AGENCOURT_8750338 NIH_MGC_130 Mus musculus cDNA clone IMAGE:6333149
 DEFINITION 5', mRNA Sequence.
 BUI52634
 VERSION BUI52634.1 GI:22666166
 KEYWORDS EST.
 SOURCE Mus musculus (house mouse)
 ORGANISM Mus musculus
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae; Mus.
 REFERENCE 1 (bases 1 to 892)
 NIH-MGC http://mgi.nci.nih.gov/
 AUTHORS National Institutes of Health, Mammalian Gene Collection (MGC)
 TITLE Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: cga@rs-remail.nih.gov
 Tissue Procurement: Mark Macconochie, Ph.D. and Nancy L. Freeman, Ph.D.
 cDNA Library Preparation: Reggen, Invitrogen Corp
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
 DNA Sequencing by: Agencourt Bioscience Corporation
 Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at:
 http://image.llnl.gov
 plate: LLNL3791 row: 0 column: 06
 High quality sequence stop: 721.
 Location/Qualifiers
 1..892
 /organism="Mus musculus"
 /mol_type="mRNA"
 /db_xref="taxon:10090"
 /clone="IMAGE:6333149"
 /lab_host="DH10B (phage-resistant)"
 /note="Organ: oocytes; Vector: pCMV-SPORT6.1, Site 1: EcoRV, Site 2: NotI; Cloned unidirectionally. Primer: Oligo dT. Average insert size 1.95 kb. Constructed by Reggen, Invitrogen Corp. Note: this is a NIH_MGC Library."

ORIGIN
 Query Match 45.2%; Score 550.4; DB 13; Length 892;
 Best Local Similarity 79.2%; Pred. No. 3.1e-129;
 Matches 711; Conservative 0; Mismatches 166; Indels 21; Gaps 4;

40 CGTCTCTGAGAGCTGCAAGAGAGTGGCGCGCGCCGCCCTCCCTCCGAGT 99
 1 CGTCTCTGAGAGCTGCAAGAGAGTGGCGCGCGCGCTGCTGCTCCCTCCGAGT 60
 100 GGGCCGAGAGTGAAGAAATCACTGCAAGAGAGTGGCGCGCGCTGCTGAG-----CCC 154
 61 GGGCCGAGAGTGAAGAAATCACTGCAAGAGAGTGGCGCGCGCTGCTGAGAGAGCCCT 120
 155 TGAGCAAGAGAGTGAAGAGAGTGAAGAGTGAAGAGAGTGAAGAGAGAGAGAGAG 214
 121 TGAGCAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGAGAGAG 180
 215 CGGCTGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAG 274
 181 CGGCTGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAGTGAAGAGAG 240

QY 275 GGGAGAGAGTGGCGTTGGTGTGACAGCTGAGAAACACCGAGAGTTTCCACCGAGGC 334
 DB 241 TTGGAGAGAGTGGCGTTGGTGTGACAGCTGAGAAACACCGAGAGTTTCCACCGAGGC 300
 QY 335 CGCCCTTGGAGAGTGTGAGAGGTTCTTGAAGAGGTTTCCCTCTTTGGGGGTTCTC 394
 DB 301 CGCCCTTGGAGAGTGTGAGAGGTTCTTGAAGAGGTTTCCCTCTTTGGGGGTTCTC 360
 QY 395 ACCAGAGAGGTTCTTGGGGGTTCCCTCTTGAAGAGGTTCCGCTAACAGGGCCAGAA 454
 DB 361 ACTGAGAGAGTGTCT--GGGATCCTCTCCGAGAGACT-----GGCTAAGAA 407
 QY 455 CTGCATTGATGTGTCCAGAAATCCCTGTGATGTTGATTAATGTTGGGAATAGCTTGCACT 514
 DB 408 CTGCAGAGTATGCGCAGCATTTCCAGTGTGATTAATGTTGAAATGAGCTGCTTACCC 467
 QY 515 TTCTTGGCATTCCTGTTTAAACAAATAGATGAAATTCCTCAACTCCAGGTTATG 574
 DB 468 TTCTCCAGCATTCAGTTGTAAATAATGATGAAATGCAAGT--TCAGTTCCACATTATG 524
 QY 575 AAAACAGTACTTGGAAAACCTGAAACTAATGATGATGCTTTGGTTGGCGCTGTTTC 634
 DB 525 AAAACAGTACTCGGAAATTAATAAATACTATCTAGATGATGCTTTGGTTGGCGCTGTTTC 584
 QY 635 TTAGCAGCAGAGCTTGGCCAGAGGTTCTGTTGATCTCTGAGAGCAGCATAGCCAC 694
 DB 585 TTAGCAGCAGAGCTTGGCCAGAGGTTCTGTTGATCTCTGAGAGCAGCATAGCCAC 644
 QY 695 TTCTTGGCATTCCTGTTTAAACAAATAGATGAAATTCCTCAACTCCAGGTTATG 754
 DB 645 CTATTGGGAGCTACAGGTCGACCTGCTACTGATGTTGTTGTTGTTGTTGTTGTTGTTG 704
 QY 755 AGTGGAGCAGATGACAGTGTGACACCCACAGCAGCAGCAGCAGCAGCAGTCCCT 814
 DB 705 AGTGGAGCAGATGACAGTGTGACACCCACAGCAGCAGCAGCAGCAGCAGTCCCT 764
 QY 815 ACTGTCACAGAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 874
 DB 765 ACTGTCAGTATGAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 824
 QY 875 CCTCATGAGCAG 932
 DB 825 CCTCATGAGCAG 882
 RESULT 8
 LOCUS Bg744401 722 bp mRNA linear EST 15-MAY-2001
 DEFINITION 602723139F1 NIH_MGC_106 Homo sapiens cDNA clone IMAGE:4849713 5',
 mRNA sequence.
 ACCESSION Bg744401
 VERSION Bg744401.1 GI:14055054
 KEYWORDS EST.
 SOURCE
 ORGANISM Homo sapiens (human)
 Tissue: Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
 1 (bases 1 to 722)
 NIH-MGC http://mgi.nci.nih.gov/
 National Institutes of Health, Mammalian Gene Collection (MGC)
 Unpublished (1999)
 Contact: Robert Strausberg, Ph.D.
 Email: cgapbs-remail.nih.gov
 Tissue Procurement: Dr. Daniel McGivick, DBS/NCI
 cDNA Library Preparation: Ling Hong/Rubin Laboratory
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNL)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone distribution: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNL at:
 http://image.llnl.gov
 Plate: L16C1689 row: m column: 10
 High quality sequence stop: 676.

FEATURES
 source
 Location/Qualifiers
 1..722
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:4849713"
 /issue_type="natural killer cells, cell line"
 /lab_host="DH10B (phage-resistant)"
 /clone_1b="NIH MGC 106"
 /note="Organ: blood; Vector: pMTB7, Site 1: XhoI; Site 2:
 EcoRI; cDNA made by oligo-dt priming. Directionally cloned
 into EcoRI/XhoI sites using the following 5' adaptor:
 GGCAAGAG(G). Library constructed by Ling Hong in the
 laboratory of Gerald M. Rubin (University of California,
 Berkeley) using ZAP-cDNA synthesis kit (Stratagene) and
 Superscript II RT (Life Technologies). Note: this is a
 NIH_MGC library."

ORIGIN
 Query Match 44.0%; Score 535.4; DB 12; Length 722;
 Best Local Similarity 99.5%; Pred. No. 1.9e-125;
 Matches 558; Conservative 0; Mismatches 1; Indels 2; Gaps 2;

QY 398 AGAAGAGTCTTGGGGGTCGCTTCTGAGAGGCTGGGCTAAAGAGGCCAGAACTG 457
 DB 2 AGAAGAGTCTTGGGGGTCGCTTCTGAGAGGCTGGGCTAAAGAGGCCAGAACTG 61
 QY 458 CCATTGAGATCCAGATCCCTGTGATGATTAATGTTGGATTAAGCTTGGCACTTC 517
 DB 62 CCATTGAGATCCAGATCCCTGTGATGATTAATGTTGGATTAAGCTTGGCACTTC 121
 QY 518 TTGGCATTCAGTTGTAAACAAATAGATGAAATTCCTCAACTCCAGGTTATGAA 577
 DB 122 TTGGCATTCAGTTGTAAACAAATAGATGAAATTCCTCAACTCCAGGTTATGAA 181
 QY 578 ACGATCTTGGAAAACCTGAACTAATGATGCTTTGTTGGGCGTGTCTTA 637
 DB 182 ACGATCTTGGAAAACCTGAACTAATGATGCTTTGTTGGGCGTGTCTTA 240
 QY 638 GCGAGAGAGGCTTGGCCAGAGGCTGTGTTGATCTCTGAGAGCAGATAGCCACTTC 697
 DB 241 GCGAGAGAGGCTTGGCCAGAGGCTGTGTTGATCTCTGAGAGCAGATAGCCACTTC 300
 QY 698 CTAGGACTGAGATGCGGCTACTACATGAGGTAATTCCTGATCTGCCAGATGACAT 757
 DB 301 CTAGGACTGAGATGCGGCTACTACATGAGGTAATTCCTGATCTGCCAGATGACAT 360
 QY 758 GGAACAGATGACAGTGTGACACCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 816
 DB 361 GGAACAGATGACAGTGTGACACCCACAGCAGCAGCAGCAGCAGCAGCAGCAGCAGC 420
 QY 817 TGTCGACAGAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 876
 DB 421 TGTCGACAGAGAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAGCAG 480
 QY 877 TCATGAGCAG 936
 DB 481 TCATGAGCAG 540
 QY 937 AATAGGAGCTCTTGTATGATTA 957
 DB 541 AATAGGAGCTCTTGTATGATTA 561

RESULT 9
 LOCUS B1666950 711 bp mRNA linear EST 12-SEP-2001
 DEFINITION 603291808F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:5311345 5',
 mRNA sequence.
 ACCESSION B1666950
 VERSION B1666950.1 GI:15581183
 KEYWORDS EST.
 SOURCE Homo sapiens (human)

ORGANISM	Homio sapiens
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
AUTHORS	1 (bases 1 to 711)
TITLE	NIH-MGC http://mgc.nci.nih.gov/.
JOURNAL	National Institutes of Health, Mammalian Gene Collection (MGC) Unpublished (1999)
COMMENT	Contact: Robert Strausberg, Ph.D. Email: rs9@bbs-remail.nih.gov Tissue Procurement: Miklos Palciovits, M.D., Ph.D. cDNA Library Preparation: Michael J. Brownstein (NHGRI), Shizuki Toshiyuki and Piero Carninci (RIKEN) DNA Sequencing by: Incyte Genomics, Inc. Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LLNL at: http://image.llnl.gov Plate: LLNL11788 row: p column: 02 High quality sequence stop: 695.
FEATURES	location/Qualifiers
source	1..711
	/organism="Homo sapiens"
	/mol_type="mRNA"
	/db_xref="taxon:9606"
	/clone="IMAGE:5311345"
	/tissue_type="hypothalamus"
	/lab_host="DH10B"
	/clone_id="NIH_MGC_96"
	/note="Organ: brain; Vector: pBluescript (modified pBluescript KS+); Site_1: BamHI; Site_2: SalI-XhoI (gtcgag); Oligo-dr primed using primer 5'-ttttttttttttttt-3', size-selected for average insert size 2.3 kb and normalized to ROT 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library."
ORIGIN	
Query Match	41.5%; Score 505.4; DB 12; Length 711;
Best Local Similarity	99.8%; Pred. No. 8.7e-118;
Matches	506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
451	AGAACTGCATTGGATGTCCTCAATCCCTGTATGTAATGTTGGGAATAGCTGCG 510
142	AAATGCGCATTGGATGTCCTCAATCCCTGTATGTAATGTTGGGAATAGCTGCG 201
511	AACTTCTTTGGCATTGATGTTTAAACCAATATGATGCAATTCCTCAATCCAGGT 570
202	AACTTCTTTGGCATTGATGTTTAAACCAATATGATGCAATTCCTCAATCCAGGT 261
571	TATGAAACAGTACTGGAAACTGAAACTGAACTGAAAGATCGTCTTGGTGGCGGT 630
262	TATGAAACAGTACTGGAAACTGAAACTGAAAGATCGTCTTGGTGGCGGT 321
631	GTTCTTAGGAGACAGAGGCTTGGCCAGGAGTGTGTTGACTCTTGAAAGACATACG 690
322	GTTCTTAGGAGACAGAGGCTTGGCCAGGAGTGTGTTGACTCTTGAAAGACATACG 381
691	CGACTTCCATAGGAGACAGAGGCTTGGCCAGGAGTGTGTTGACTCTTGAAAGAC 750
382	CGACTTCCATAGGAGACAGAGGCTTGGCCAGGAGTGTGTTGACTCTTGAAAGAC 441
751	TGACAGTGAACAGATGACAGTGTGACACCCACAGCAACAGGCGGAGAACATGTCAGT 810
442	TGACAGTGAACAGATGACAGTGTGACACCCACAGCAACAGGCGGAGAACATGTCAGT 501
811	ACCACTGTCGACACAGAGGACCAACACAGGACCTGTTGGCCACCAAGAGGAGGCGG 870
502	ACCACTGTCGACACAGAGGACCAACACAGGACCTGTTGGCCACCAAGAGGAGGCGG 561
871	AGGACTCTATGAGCCACAGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGGAGG 930

Db	Accession	Length	Score	DB	Length	Score
Db	562 AGGACCTCCAGAGCGAAGGAAAGAAACAAATGAGTGGGTAGTGTGGACACACT	621				
Qy	931 GGACGATATACGACCTCTTGATATAA	957				
Db	622 GGACGATATACGACCTCTTGATATAA	648				
RESULT 10						
LOCUS	BU161287	835 bp		MRNA	linear	EST 04-SEP-2002
DEFINITION	AGENCOURT 7960449 NIH_MGC_72 Homo sapiens cDNA clone IMAGE:6166363					
ACCESSION	BU161287					
VERSION	BU161287.1					
KEYWORDS	EST.					
SOURCE	Homo sapiens (human)					
ORGANISM	Homo sapiens					
REFERENCE	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;					
AUTHORS	Mammalia; Eutheria; Primates; Catarrhini; Homidae; Homo.					
TITLE	1 (bases 1 to 835)					
JOURNAL	NIH-MGC http://mgs.nci.nih.gov/.					
COMMENT	National Institutes of Health, Mammalian Gene Collection (MGC)					
	Unpublished (1998)					
	Contact: Robert Strausberg, Ph.D.					
	Email: gsapbs-remail.nih.gov					
	Tissue Procurement: ATCC/DCT/DRP					
	cDNA Library Preparation: Life Technologies, Inc.					
	cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)					
	DNA sequencing by: Agencourt Bioscience Corporation					
	Clone distribution: MGC clone distribution information can be					
	found through the I.M.A.G.E. Consortium/LNLN at:					
	http://image.lnl.gov					
	Plate: LLM1526					
	row: 1					
	column: 20					
	High quality sequence stop: 634.					
FEATURES						
source						
	1..835					
	Location/Qualifiers					
	/organism="Homo sapiens"					
	/mol_type="mRNA"					
	/db_xref="taxon:9606"					
	/clone="IMAGE:6166363"					
	/tissue_type="melanotic melanoma"					
	/lab_host="DH10B (phage-resistant)"					
	/clone_id="NIH MGC_72"					
	/note="Organ: skin; Vector: pCMV-SPORT6; Site_1: NotI;					
	Site_2: SalI; Cloned unidirectionally. Primer: Oligo dT.					
	Average insert size 2 kb. Library constructed by Life					
	Technologies."					
ORIGIN						
Query Match	41.5%; Score 505.4; DB 13; Length 835;					
Best Local Similarity	99.8%; Pred. No. 9.2e-118;					
Matches	506; Conservative 0; Mismatches 1; Indels 0; Gaps 0					
Qy	451 AGAATGCGATGATGATGTCGCAAGATCCCTGTAGTGTGATGATGTTGGGAATTAAGCTCTGC	510				
Db	65 AAAATGCGATGATGATGTCGCAAGATCCCTGTAGTGTGATGATGTTGGGAATTAAGCTCTGC	124				
Qy	511 AACCTTCTTTGGCATTCACTGTTTAAACAATATGATGCAAAATCTCTCACTCAGGT	570				
Db	125 AACCTTCTTTGGCATTCACTGTTTAAACAATATGATGCAAAATCTCTCACTCAGGT	184				
Qy	571 TATGAAAACAGTACTTGAAAACTGAAATCTTAATGATCGTCTTTGGTGGGCGGT	630				
Db	165 TATGAAAACAGTACTTGAAAACTGAAATCTTAATGATCGTCTTTGGTGGGCGGT	244				
Qy	631 GTTCTTAGCGAGACGAAAGCTTGGCGAAGGTCTGTTGTGACTCTCGAAGACACATAGC	690				
Db	245 GTTCTTAGCGAGACGAAAGCTTGGCGAAGGTCTGTTGTGACTCTCGAAGACACATAGC	304				
Qy	691 CCACTTCTTAGGGAATGAGGTGCCGCTACTACATCAATGGGTAAATTCCTGTATCTGCCAGA	750				
Db	305 CCACTTCTTAGGGAATGAGGTGCCGCTACTACATCAATGGGTAAATTCCTGTATCTGCCAGA	364				

Query Match	41.5%;	Score 505.4;	DB 13;	Length 835;
Best Local Similarity	99.8%;	Pred. No. 9.2e-118;		
Matches 506;	Conservative	0;	Mismatches 1;	Indels 0;
QY	451	AGAAATGGCATTGATGATGTCACAGAAATCCCCCTGATGTGATATATGTGGGAAATAGCTGCG		510
Db	65	AAAAATGCGCATTTGATGATGTCACAGAAATCCCTGATGTGATATATGTGGGAAATAGCTGCG		124
QY	511	AACITTTCTTTGGCATTGCAGTTGTATAAACAATAATGATGCAAAATTCCTCAACTCCAGGT		570
Db	125	AACITTTCTTTGGCATTGCAGTTGTATAAACAATAATGATGCAAAATTCCTCAACTCCAGGT		184
QY	571	TATGAAAACAGACTTTGGAAAACTGAAACTGACTTAATGATTCGCTTTGTGTTGGGCGGT		630
Db	185	TATGAAAACAGACTTTGGAAAACTGAAACTGACTTAATGATTCGCTTTGTGTTGGGCGGT		244
QY	631	GTTCTTTAGGACAGAAAGCTTTGGCCAGAGGTGTGTGTAGCTCTGCGAAGAGACATATGC		690
Db	245	GTTCTTTAGGACAGAAAGCTTTGGCCAGAGGTGTGTGTAGCTCTGCGAAGAGACATATGC		304
QY	691	CCACTTCTGAGGAGCTGGAGGTGCGCGTACTACTACATGAGTAATTCCTGTATCTGCCGAGA		750
Db	305	CCACTTCTGAGGAGCTGGAGGTGCGCGTACTACTACATGAGTAATTCCTGTATCTGCCGAGA		364

Best Local Similarity 99.6%; Pred. No. 2,2e-117;
Matches 505; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	451	AGAAGTGCATGATGATCCAGATACCCCTGATGATTAATGTTGGGAATAGCTGCG	510
DB	107	AAAGTGCATGATGATCCAGATACCCCTGATGATTAATGTTGGGAATAGCTGCG	166
QY	511	AACTTTCTTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCCAGGT	570
DB	167	AACTTTCTTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCCAGGT	226
QY	571	TATGAAAACAGTACTGGAAAACGAAATACCTAAATGATGATGCTGTTGGGCGGT	630
DB	227	TATGAAAACAGTACTGGAAAACGAAATACCTAAATGATGATGCTGTTGGGCGGT	286
QY	631	GTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	690
DB	287	GTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	346
QY	691	CCACTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	750
DB	347	CCACTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	406
QY	751	TGACAGTGGAAAGATGACAGTGTGACACCCAAAGAGAGGCGGAGAAAGTGCAGT	810
DB	407	TGACAGTGGAAAGATGACAGTGTGACACCCAAAGAGAGGCGGAGAAAGTGCAGT	466
QY	811	ACCCACTGCTGACACAGAGAGCCAAAGAGAGGCGGAGAAAGTGCAGT	870
DB	467	ACCCACTGCTGACACAGAGAGCCAAAGAGAGGCGGAGAAAGTGCAGT	526
QY	871	AGGACCTCATGAGCCAGAGAGAAACAATATGATGAGTGGCTAGTGTGACACACT	930
DB	527	AGGACCTCATGAGCCAGAGAGAAACAATATGATGATGGCTAGTGTGACACACT	586
QY	931	GCGAGTAAATACGAGCTCTTGTAGATTA 957	
DB	587	GCGAGTAAATACGAGCTCTTGTAGATTA 613	

RESULT 13

LOCUS CD683922 670 bp mRNA linear EST 25-JUN-2003
DEFINITION EST1442 human nasopharynx Homo sapiens cDNA, mRNA sequence.
ACCESSION CD683922
VERSION CD683922.1 GI:32198428
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 670)
AUTHORS Liu,X.-Q., Zhou,Y., Zhang,L.-D., Xu,H., Chen,H.-K., Pan,Z.-G. and Zeng,Y.-X.
TITLE Transcriptional Gene Expression Profile of Human Nasopharynx
JOURNAL Unpublished (2003)
COMMENT Contact: Yixin Zeng
Cancer Center
Sun Yat-sen University
651 Dongfeng Road East, Guangzhou 510660, China
Tel: 86-1380-9770-743
Fax: 86-20-8775-4506
Email: yxzeng@gzsun.edu.cn.
Location/Qualifiers
1..670

FEATURES
source
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/cigar_type="normal nasopharynx"
/clone_lib="human nasopharynx"
/note="ESTs generated from a normal nasopharynx cDNA library from southern Chinese"

ORIGIN
Query Match 41.4%; Score 503.8; DB 14; Length 670;

Best Local Similarity 99.6%; Pred. No. 2,2e-117;
Matches 505; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY	451	AGAAGTGCATGATGATCCAGATACCCCTGATGATTAATGTTGGGAATAGCTGCG	510
DB	107	AAAGTGCATGATGATCCAGATACCCCTGATGATTAATGTTGGGAATAGCTGCG <td>205</td>	205
QY	511	AACTTTCTTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCCAGGT	570
DB	167	AACTTTCTTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCCAGGT	265
QY	571	TATGAAAACAGTACTGGAAAACGAAATACCTAAATGATGATGCTGTTGGGCGGT	630
DB	227	TATGAAAACAGTACTGGAAAACGAAATACCTAAATGATGATGCTGTTGGGCGGT	325
QY	631	GTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	690
DB	287	GTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	385
QY	691	CCACTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	750
DB	347	CCACTTCTTAGGAGACAGAGCTTGCCAGAGGTCTGTTGTAAGTCTGAGACATAGC	445
QY	751	TGACAGTGGAAAGATGACAGTGTGACACCCAAAGAGAGGCGGAGAAAGTGCAGT	810
DB	407	TGACAGTGGAAAGATGACAGTGTGACACCCAAAGAGAGGCGGAGAAAGTGCAGT	505
QY	811	ACCCACTGCTGACACAGAGAGCCAAAGAGAGGCGGAGAAAGTGCAGT	870
DB	467	ACCCACTGCTGACACAGAGAGCCAAAGAGAGGCGGAGAAAGTGCAGT	565
QY	871	AGGACCTCATGAGCCAGAGAGAAACAATATGATGAGTGGCTAGTGTGACACACT	930
DB	527	AGGACCTCATGAGCCAGAGAGAAACAATATGATGATGGCTAGTGTGACACACT	625
QY	931	GCGAGTAAATACGAGCTCTTGTAGATTA 957	
DB	626	GCGAGTAAATACGAGCTCTTGTAGATTA 652	

RESULT 14

LOCUS BG749354 727 bp mRNA linear EST 15-MAY-2001
DEFINITION 602707829F1 NIH_MGC_43 Homo sapiens cDNA clone IMAGE:4844622 5',
ACCESSION BG749354
VERSION BG749354.1 GI:14060007
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1 (bases 1 to 727)
AUTHORS NIH-MGC http://imgc.ncl.nih.gov/.
TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
JOURNAL Unpublished (1999)
COMMENT Contact: Robert Strausberg, Ph.D.
Email: c9abps-remail.nih.gov
Tissue Procurement: ATCC
CDNA Library Preparation: Ling Hong/Rubin Laboratory
CDNA Library Arrayed by: The I.M.A.G.E. Consortium (LLNL)
DNA Sequencing by: Incyte Genomics, Inc.
Clone distribution: MGC clone distribution information can be
found through the I.M.A.G.E. Consortium/LLNL at:
http://image.llnl.gov
Plate: LHCMA682 row: 1 column: 07
High quality sequence stop: 723.
Location/Qualifiers
1..727

FEATURES
source
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="IMAGE:4844622"

/tissue type="normal pigmented retinal epithelium"
 /lab_host="DN10B (phage-resistant)"
 /clone_id="NIH_MGC_43"
 /note="Organ: eye; Vector: pOTB7; Site: 1: XhoI; Site: 2: EcoRI; cDNA made by oligo-dT priming. Directionally cloned into EcoRI/XhoI sites using the following 5' adaptor: GGACAGAG(G). Library constructed by Ling Hong in the laboratory of Gerald M. Rubin (University of California, Berkeley) using ZAP-CDNA synthesis kit (Stratagene) and Superscript II RT (Life Technologies).
 Note: this is a NIH_MGC Library." |"

ORIGIN

Query Match 41.4%; Score 503.8; DB 12; Length 727;
 Best Local Similarity 99.6%; Pred. No. 2.4e-117; Indels 0; Gaps 0;
 Matches 505; Conservative 0; Mismatches 2;

QY 451 AGAAGCTGCATGATGTCAGAAATCCCTGTAGTTGATATATGTTGGAAATTAAGCTTGC 510
 Db 153 AAAAGTGCATGATGTCAGAAATCCCTGTAGTTGATATATGTTGGAAATTAAGCTTGC 212
 QY 511 AACTTTCTTGGCACTGATGTTTAAACAAATAGATGCAATTCCTCACTCCAGGT 570
 Db 213 AACTTTCTTGGCACTGATGTTTAAACAAATAGATGCAATTCCTCACTCCAGGT 272
 QY 571 TATGAAACAGTACTTGGAAATCTGAAATCTTAATATGATCGTCTTTGGTGGCCGT 630
 Db 273 TATGAAACAGTACTTGGAAATCTGAAATCTTAATATGATCGTCTTTGGTGGCCGT 332
 QY 631 GTTCTTTCAGGAGAGAGCCCTGGCCAGGCTGCTTGTGATCTCTGAAAGACATAGC 690
 Db 333 GTTCTTTCAGGAGAGAGCCCTGGCCAGGCTGCTTGTGATCTCTGAAAGACATAGC 392
 QY 691 CCACCTTCTTACGAGAGAGGTCGCGTACTACCATCGGTAATCTCTGATCTGCCAGA 750
 Db 393 CCACCTTCTTACGAGAGAGGTCGCGTACTACCATCGGTAATCTCTGATCTGCCAGA 452
 QY 751 TGAACAGTGAACACATGACATGTTTGACACCCACACACAGGCCACAGACAGTGAAGT 810
 Db 453 TGAACAGTGAACACATGACATGTTTGACACCCACACACAGGCCACAGACAGTGAAGT 512
 QY 811 ACCCACTGCTGACACAAAGAGACCAACAGGAGCCCTGTTGCGGACACCAAGAGGAGCG 870
 Db 513 ACCCACTGCTGACACAAAGAGACCAACAGGAGCCCTGTTGCGGACACCAAGAGGAGCG 572
 QY 871 AGAAGCTCATAGCCAAAGAGAAAGAAACAAATGTGATGAGTGTGTTGACACACT 930
 Db 573 AGAAGCTCATAGCCAAAGAGAAAGAAACAAATGTGATGAGTGTGTTGACACACT 632
 QY 931 GGCACTATATACGAGACTCTTGTAGATA 957
 Db 633 GGCACTATATACGAGACTCTTGTAGATA 655

RESULT 15
 B1668768 834 bp mRNA linear EST 12-SEP-2001
 LOCUS 603299714.F1 NIH_MGC_96 Homo sapiens cDNA clone IMAGE:531398 5',
 DEFINITION mRNA sequence.
 ACCESSION B1668768
 VERSION B1668768.1 GI:15583001
 KEYWORDS EST.
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 AUTHORS NIH-MGC http://mgc.nci.nih.gov/
 TITLE National Institutes of Health, Mammalian Gene Collection (MGC)
 JOURNAL Unpublished (1999)
 COMMENT Contact: Robert Strausberg, Ph.D.
 Email: rstraub@mail.nih.gov
 Tissue Procurement: Miklos Palokovits, M.D., Ph.D.

CDNA Library Preparation: Michael J. Brownstein (NHGRI), Shiraki
 Tohyuki and Piero Carninci (RIKEN)
 cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LNLN)
 DNA Sequencing by: Incyte Genomics, Inc.
 Clone Identification: MGC clone distribution information can be
 found through the I.M.A.G.E. Consortium/LNLN at:
 http://image.llnl.gov
 Plate: L14M11795 row: 1 column: 03
 High quality sequence stop: 810.
 Location/Qualifiers

FEATURES

source

1. 834
 /organism="Homo sapiens"
 /mol_type="mRNA"
 /db_xref="taxon:9606"
 /clone="IMAGE:531398"
 /tissue_type="hypothalamus"
 /lab_host="DN10B"
 /clone_id="NIH_MGC_96"
 /note="Organ: brain; Vector: pBluescript (modified pBluescript KS+); Site: 1: BamHI; Site: 2: SalI-XhoI (gtcgag); Oligo-dT primed using primer 5'-TTTTTTTTTTTNN-3', size-selected for average insert size 2.3 kb and normalized to R0T 5. This is a primary library enriched for full-length clones and constructed using the Cap-trapper method (Carninci, in preparation). Library constructed by M. Brownstein (NIH/NHGRI, National Institutes of Health). Note: this is a NIH_MGC Library." |"

ORIGIN

Query Match 41.4%; Score 503.8; DB 12; Length 834;
 Best Local Similarity 99.6%; Pred. No. 2.4e-117; Indels 0; Gaps 0;
 Matches 505; Conservative 0; Mismatches 2;

QY 451 AGAAGCTGCATGATGTCAGAAATCCCTGTAGTTGATATATGTTGGAAATTAAGCTTGC 510
 Db 142 AAAAGTGCATGATGTCAGAAATCCCTGTAGTTGATATATGTTGGAAATTAAGCTTGC 201
 QY 511 AACTTTCTTGGCACTGATGTTTAAACAAATAGATGCAATTCCTCACTCCAGGT 570
 Db 202 AACTTTCTTGGCACTGATGTTTAAACAAATAGATGCAATTCCTCACTCCAGGT 261
 QY 571 TATGAAACAGTACTTGGAAATCTGAAATCTTAATATGATCGTCTTTGGTGGCCGT 630
 Db 262 TATGAAACAGTACTTGGAAATCTGAAATCTTAATATGATCGTCTTTGGTGGCCGT 321
 QY 631 GTTCTTTCAGGAGAGAGCCCTGGCCAGGCTGCTTGTGATCTCTGAAAGACATAGC 690
 Db 322 GTTCTTTCAGGAGAGAGCCCTGGCCAGGCTGCTTGTGATCTCTGAAAGACATAGC 381
 QY 691 CCACCTTCTTACGAGAGAGGTCGCGTACTACCATCGGTAATCTCTGATCTGCCAGA 750
 Db 382 CCACCTTCTTACGAGAGAGGTCGCGTACTACCATCGGTAATCTCTGATCTGCCAGA 441
 QY 751 TGAACAGTGAACACATGACATGTTTGACACCCACACACAGGCCACAGACAGTGAAGT 810
 Db 442 TGAACAGTGAACACATGACATGTTTGACACCCACACACAGGCCACAGACAGTGAAGT 501
 QY 811 ACCCACTGCTGACACAAAGAGACCAACAGGAGCCCTGTTGCGGACACCAAGAGGAGCG 870
 Db 502 ACCCACTGCTGACACAAAGAGACCAACAGGAGCCCTGTTGCGGACACCAAGAGGAGCG 561
 QY 871 AGAAGCTCATAGCCAAAGAGAAAGAAACAAATGTGATGAGTGTGTTGACACACT 930
 Db 562 AGAAGCTCATAGCCAAAGAGAAAGAAACAAATGTGATGAGTGTGTTGACACACT 621
 QY 931 GGCACTATATACGAGACTCTTGTAGATA 957
 Db 622 GGCACTATATACGAGACTCTTGTAGATA 648

Search completed: April 4, 2004, 09:00:42
 Job time : 3085 secs

Mon Apr 5 09:54:04 2004

us-10-066-500-8.rst

Page 12

QY	301	CTGAGAAACAGCCGAGAGGTTTTCACCGAGGCCCGGCTTGAGGGATCTGAAAGGTTG	360
Db	301	CTGAGAAACAGCCGAGAGGTTTTCACCGAGGCCCGGCTTGAGGGATCTGAAAGGTTG	360
QY	361	CTAGAAAGAGGGTGTTCCTCTTTCGGGGGTCCTCACAGAGAGAGTTCTTGGGGTGC	420
Db	361	CTAGAAAGAGGGTGTTCCTCTTTCGGGGGTCCTCACAGAGAGAGTTCTTGGGGTGC	420
QY	421	CTTCTGAGAGGCTGCGGCTTAAACAGGCGCCGAATGCGCATTTGATGTCGAATCCGCT	480
Db	421	CTTCTGAGAGGCTGCGGCTTAAACAGGCGCCGAATGCGCATTTGATGTCGAATCCGCT	480
QY	481	GTAAGTGTATATGTTGGGAATPAAGCTCTGCAACTTCTTTGGCAATCAGTTGTTAAAAAC	540
Db	481	GTAAGTGTATATGTTGGGAATPAAGCTCTGCAACTTCTTTGGCAATCAGTTGTTAAAAAC	540
QY	541	AAATAGAGATGCAATTCCTCAATCCAGATTATGAAAACAATACTTGGAAAACCTGAAAAC	600
Db	541	AAATAGAGATGCAATTCCTCAATCCAGATTATGAAAACAATACTTGGAAAACCTGAAAAC	600
QY	601	TACCTAAATGATCGTCTTTGGTGGCCGTGTTCTTACGAGACAGAACCTTGGCCAGG	660
Db	601	TACCTAAATGATCGTCTTTGGTGGCCGTGTTCTTACGAGACAGAACCTTGGCCAGG	660
QY	661	TCTGTGTTTAACTCTCGAAGAGCAATAGCCCATTTCTTAGGACTGGAGGTGCGCTAC	720
Db	661	TCTGTGTTTAACTCTCGAAGAGCAATAGCCCATTTCTTAGGACTGGAGGTGCGCTAC	720
QY	721	TACCATGGGTAAATTCCTGTATCTGCGCAGATGACAGTGGAAACAGATGACAGTGTGACAC	780
Db	721	TACCATGGGTAAATTCCTGTATCTGCGCAGATGACAGTGGAAACAGATGACAGTGTGACAC	780
QY	781	CCAACAGCAACAGCGCCGAGAACAGTGCAGTATCCCATCTGTCACAAAGAGCCACACG	840
Db	781	CCAACAGCAACAGCGCCGAGAACAGTGCAGTATCCCATCTGTCACAAAGAGCCACACG	840
QY	841	GGAACCTGTTCGGCCACCAAGAGGGGCCGAGAACCTCATGAGCCAAAGAAAGAAACA	900
Db	841	GGAACCTGTTCGGCCACCAAGAGGGGCCGAGAACCTCATGAGCCAAAGAAAGAAACA	900
QY	901	AAATGTGATGGGCTAAGTGTGGAACAACACTGGCAGTAATACGGAATCTTGTAGATPAAGTA	960
Db	901	AAATGTGATGGGCTAAGTGTGGAACAACACTGGCAGTAATACGGAATCTTGTAGATPAAGTA	960
QY	961	AGTATCTGACTACAGGTCACCTCCAGTGGATGAAAAGTGTCTGCCGGAACCATGACT	1020
Db	961	AGTATCTGACTACAGGTCACCTCCAGTGGATGAAAAGTGTCTGCCGGAACCATGACT	1020
QY	1021	TTAGAGCTTCCTCAAGTCTCTTTAGGACATATCTGCCCAAGCCTTTGTGCTCACAGGGCAAG	1080
Db	1021	TTAGAGCTTCCTCAAGTCTCTTTAGGACATATCTGCCCAAGCCTTTGTGCTCACAGGGCAAG	1080
QY	1081	GAGAAATTTTAAATCTCCGCTGATGAGCAGAGTAATGATTAAGATTTGATTTTGTCTT	1140
Db	1081	GAGAAATTTTAAATCTCCGCTGATGAGCAGAGTAATGATTAAGATTTGATTTTGTCTT	1140
QY	1141	GCTGTCACTACTTGTGTCTGAAAATGCTCTAAATGTTTCTGTAGCAGAAAACACGATTAAG	1200
Db	1141	GCTGTCACTACTTGTGTCTGAAAATGCTCTAAATGTTTCTGTAGCAGAAAACACGATTAAG	1200
QY	1201	CTATGATCTTTATTTAAG	1218
Db	1201	CTATGATCTTTATTTAAG	1218
RESULT 2			
AAFS4205			
ID AAF54205 standard; DNA; 1218 BP.			
XX AAF54205;			
DT 02-APR-2001 (first entry)			

XX	DNA encoding protein of the invention #2.
DE	Secreted; transmembrane; gene therapy; ss.
XX	Identified.
XX	WO200078961-A1.
XX	28-DEC-2000.
PD	18-FEB-2000; 2000MO-US004342.
PF	23-JUN-1999; 99US-0141037P.
XX	PR 20-JUL-1999; 99US-0144758P.
PR	PR 26-JUL-1999; 99US-0145698P.
PR	01-SEP-1999; 99WO-US020111.
PR	29-OCT-1999; 99US-0162506P.
PR	30-NOV-1999; 99WO-US028313.
PR	02-DEC-1999; 99WO-US028551.
PR	16-DEC-1999; 99WO-US030095.
PR	05-JAN-2000; 2000WO-US000219.
PR	06-JAN-2000; 2000WC-US000376.
XX	(GETH) GENENTECH INC.
PA	Baker KP, Botstein D, Desnovers L, Eaton DL, Ferrara N, Fong S;
PI	Gao W, Goddard A, Godowski FJ, Grimaldi CJ, Gurney AL, Hillan KJ;
PI	Pan J, Paoni NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK;
PI	Williams PM, Wood WI;
DR	WPI; 2001-071395/08.
XX	Secreted and transmembrane proteins and nucleic acids designated PRO,
PT	useful as hybridization probes, in chromosome and gene mapping and gene
PT	therapy.
PS	Claim 2; Fig 3; 787pp; English.
CC	The present invention relates to secreted and transmembrane proteins.
CC	These proteins and the DNA encoding them may be used as hybridization
CC	probes, in chromosome and gene mapping and in the generation of anti-
CC	sense RNA and DNA. They may also be used to generate either
CC	transgenic animals or knockout animals which are in turn useful for
CC	development and screening of therapeutically useful reagents. The nucleic
CC	acids may also be used in gene therapy
XX	Sequence 1218 BP; 292 A; 299 C; 360 G; 267 T; 0 U; 0 Other;
SQ	
Query Match	100.0%; Score 1218; DB 4; Length 1218;
Best Local Similarity	100.0%; Pred.No. 0;
Matches 1218; Conservative	0; Mismatches
	0; Indels
	0; Gaps
	0
QY	1 CCCAGCGCTCCGCCGCCGCCGGCCTCGGCATCTTTGCCGTTCTCGACCTGCACA 60
DB	1 CCCAGCGCTCCGCCGCCGCCGGCCTCGGCATCTTTGCCGTTCTCGACCTGCACA 60
QY	61 AAGGAGTCGCGCGCGCGCGCGCCGCCCTTCCCTCGGTGGGCCCGGAGGTAGAGAACT 120
DB	61 AAGGAGTCGCGCGCGCGCGCGCCGCCCTTCCCTCGGTGGGCCCGGAGGTAGAGAACT 120
QY	121 CAGTGCCAAGCCCAAGCCCGCGCTGCTCTTAAGCCCTTAGGGAACCGGAGGGAGGACT 180
DB	121 CAGTGCCAAGCCCAAGCCCGCGCTGCTCTTAAGCCCTTAGGGAACCGGAGGGAGGACT 180
QY	181 GAGGTTGGGAGAAGTGTGAAGGAGGAGGAGACAGCCGCTCGAAGCTTGAGGCGGCGGACC 240
DB	181 GAGGTTGGGAGAAGTGTGAAGGAGGAGGAGACAGCCGCTCGAAGCTTGAGGCGGCGGACC 240
QY	241 GGACTGGGCGCGGGGTAGGCTCTGAAAAGGGCCCGGGAAGAGGTGGCTTGTCAAGAC 300
DB	241 GGACTGGGCGCGGGGTAGGCTCTGAAAAGGGCCCGGGAAGAGGTGGCTTGTCAAGAC 300

```

301 CTGAGAAACAGCCGAGAGGTTTTCACCGAGGCCGCGCTTGAAGGATCTGAAGAGGTTT 360
301 CTGAGAAACAGCCGAGAGGTTTTCACCGAGGCCGCGCTTGAAGGATCTGAAGAGGTTT 360
361 CTGAGAGAGGAGGTTTCCCTCTTTCGAGGAGTCTCAACGAGAGAGGTTTCTTGGGAGTCC 420
361 CTGAGAGAGGAGGTTTCCCTCTTTCGAGGAGTCTCAACGAGAGAGGTTTCTTGGGAGTCC 420
361 CTGAGAGAGGAGGTTTCCCTCTTTCGAGGAGTCTCAACGAGAGAGGTTTCTTGGGAGTCC 420
421 CTTCTGAGAGAGGCTCCGCTTACAGAGGCCGAGAACTGCAATGATGATGATGATGATGAT 480
421 CTTCTGAGAGAGGCTCCGCTTACAGAGGCCGAGAACTGCAATGATGATGATGATGATGAT 480
481 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
481 GATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
541 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
541 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 600
601 TACCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
601 TACCTAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
661 TCTGTTGTTGACTCTCTGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
661 TCTGTTGTTGACTCTCTGAGAGAGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
721 TACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
721 TACCATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
781 CCAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
781 CCAACAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 840
841 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
841 GAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 900
901 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
901 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
961 AGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
961 AGATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
1021 TTAGAGCTCCTTCACTTCTTGAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
1021 TTAGAGCTCCTTCACTTCTTGAAGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
1081 GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
1081 GAGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
1141 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
1141 GCTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1200
1201 CTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260
1201 CTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1260

```

```

RESULT 3
AAC86965
ID AAC86965 standard; cdna; 1218 BP.
AC
XX AAC86965;
XX
XX 20-APR-2001 (first entry)
XX

```

```

DE Nucleotide sequence of human polypeptide PRO444.
XX
XX Human; secreted protein; transmembrane protein; PRO196; PRO444; PRO183;
KW PRO185; PRO210; PRO215; PRO242; PRO288; PRO365; PRO1361; PRO1308;
KW PRO183; PRO1272; PRO1419; PRO4999; PRO7170; PRO248; PRO353; PRO1318;
KW PRO1600; PRO9940; PRO333; PRO301; PRO187; PRO37; PRO411; PRO4356;
KW PRO246; PRO265; PRO941; PRO10963; PRO6003; PRO6004; PRO350; PRO2630;
KW PRO6309; cell death; genetic disorder; transgenic animal; gene therapy;
ss.
XX
XX Homo sapiens.
XX
XX Key Location/Qualifiers
XX CDS 608..961
XX sig_peptide /tag= a
XX FT 608..655
XX FT /tag= b
XX PN MO20077037-A2.
XX
XX 21-DEC-2000.
XX
XX 22-MAY-2000; 2000MO-US014042.
XX
XX 15-JUN-1999; 99US-0139695P.
XX 20-JUL-1999; 99US-0145070P.
XX 26-JUL-1999; 99US-0145698P.
XX 17-AUG-1999; 99US-0149596P.
XX 01-SEP-1999; 99MO-US020111.
XX 08-SEP-1999; 99MO-US020594.
XX 15-SEP-1999; 99MO-US021090.
XX 15-SEP-1999; 99MO-US021547.
XX 30-NOV-1999; 99MO-US028313.
XX 01-DEC-1999; 99MO-US028301.
XX 02-DEC-1999; 99MO-US028365.
XX 07-DEC-1999; 99US-0169495P.
XX 05-JAN-2000; 2000MO-US00219.
XX 18-FEB-2000; 2000MO-US004341.
XX 18-FEB-2000; 2000MO-US004342.
XX 22-FEB-2000; 2000MO-US004414.
XX 01-MAR-2000; 2000MO-US005601.
XX 02-MAR-2000; 2000MO-US005641.
XX 20-MAR-2000; 2000MO-US007377.
XX 30-MAR-2000; 2000MO-US008439.
XX 15-MAY-2000; 2000MO-US013358.
XX 17-MAY-2000; 2000MO-US013705.
XX
XX (GENE) GENENTECH INC.
XX
XX Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers J, Eaton DL,
XX Ferraz N, Fong S, Geo W, Gerber H, Gerltzen ME, Goddard A,
XX Godwani PJ, Gurney AJ, Kljavin IV, Macher JP, Napier MA, Pan J,
XX Paoni NF, Roy MA, Stewart TA, Tumas D, Watanabe CK, Williams PM,
XX Wood W, Zhang Z;
XX WPI; 2001-050091/06.
XX P-PDB; AAB31180.
XX
XX Isolated nucleic acid molecule encoding a PRO polypeptide which is a
XX transmembrane polypeptide is useful for gene therapy and identification
XX of related polypeptides.
XX
XX Claim 2; Fig 3; 244pp; English.
XX
XX The present sequence encodes a human secreted and transmembrane
XX polypeptide. The specification describes human polypeptides, designated
XX PRO196, PRO444, PRO183, PRO185, PRO210, PRO215, PRO217, PRO242, PRO288,
XX PRO365, PRO1361, PRO1308, PRO1183, PRO1272, PRO4999, PRO7170,
XX PRO248, PRO353, PRO1318, PRO1600, PRO9940, PRO333, PRO301, PRO187,
XX PRO337, PRO411, PRO4356, PRO246, PRO265, PRO941, PRO10963, PRO6003,
XX PRO6004, PRO350, PRO2630 and PRO6309. The biological activity of cells
XX can be modulated with agents that bind to these polypeptides, resulting
XX in the death of the cells. The polynucleotides encoding these

```


28-FEB-2001; 2001US-00796498.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 01-MAR-2001; 2001WO-US006666.
 PR 09-MAR-2001; 2001US-00802706.
 PR 14-MAR-2001; 2001US-00806889.
 PR 22-MAR-2001; 2001US-00816744.
 PR 05-APR-2001; 2001US-00828366.
 PR 10-MAY-2001; 2001US-00854280.
 PR 10-MAY-2001; 2001US-00854280.
 PR 25-MAY-2001; 2001US-00866028.
 PR 25-MAY-2001; 2001US-00866034.
 PR 25-MAY-2001; 2001US-00870574.
 PR 30-MAY-2001; 2001US-00870574.
 PR 01-JUN-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 XX (GETH) GENENTECH INC.
 XX Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J, Paoni NF,
 PI Stephan JF, Watanabe CK, Williams PK, Wood WI, Ye W,
 XX
 DR WFI: 2002-090516/12.
 DR F-PSDB; ABB84819.
 XX
 PT One hundred and eighty seven nucleic acids encoding PRO polypeptides,
 PT useful in diagnosis and treatment of cardiovascular (e.g. myocardial
 PT infarction), endothelial or angiogenic disorders in a mammal.
 XX
 PS Claim 2; Fig 5; 565pp; English.
 XX
 CC ABL88072 to ABL88258 encode the PRO proteins given in ABB84817 to
 CC ABB85003. The PRO proteins and polynucleotides have cardiant, cyostatic,
 CC antiangiogenic, hypotensive, vulnerary and antiarteriosclerotic
 CC activities, and can be used in gene therapy. The PRO polynucleotides,
 CC proteins, agonists and antagonists are useful for treating or diagnosing
 CC a cardiovascular, endothelial or angiogenic disorder in a mammal, e.g.
 CC cardiac hypertrophy, trauma, cancer, age-related macular degeneration,
 CC atherosclerosis, hypertension, arterial stenosis, rheumatoid arthritis,
 CC angina, myocardial infarctions, thrombophlebitis, lymphangitis, tumour
 CC angiogenesis (such as breast carcinoma and liver carcinoma) and wound
 CC healing. The PRO polynucleotides have applications in molecular biology,
 CC including use as hybridisation probes, and in chromosome and gene
 CC mapping. ABL88259 to ABL88267 represent primers and probes used in the
 CC exemplification of the present invention.
 XX
 XX Sequence 1218 BP; 292 A; 299 C; 360 G; 267 T; 0 U; 0 Other;
 SQ
 Query Match 100.0%; Score 1218; DB 6; Length 1218;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

301 CTGAGAAACAGCGGAGAGGTTTCCACCGAGCCGCGCTTAGGGAACTGAAGAGTTTC 360
 Db
 361 CTGAGAAAGAGGTTTCCCTCTTTGGGGGCTCTTACACAGAAAGTTCTGGGGGCTCGC 420
 Qy
 361 CTGAGAAAGAGGTTTCCCTCTTTGGGGGCTCTTACACAGAAAGTTCTGGGGGCTCGC 420
 Db
 421 CTCTGAGAGAGGCTGCGCTTACAGAGGCCAGAACTGCTTGAATGTCAGAAATCCCT 480
 Qy
 421 CTCTGAGAGAGGCTGCGCTTACAGAGGCCAGAACTGCTTGAATGTCAGAAATCCCT 480
 Db
 421 CTCTGAGAGAGGCTGCGCTTACAGAGGCCAGAACTGCTTGAATGTCAGAAATCCCT 480
 Qy
 481 GTAGTTGATATGTTGGGAATAAGCTTCTGCACTTTTGGCATTCAGTTGTTAAAC 540
 Db
 481 GTAGTTGATATGTTGGGAATAAGCTTCTGCACTTTTGGCATTCAGTTGTTAAAC 540
 Qy
 541 AATATGAGTGCATATCTCAACTCCAGGTTATGAAAACAGTACTGGAAAAC 600
 Db
 541 AATATGAGTGCATATCTCAACTCCAGGTTATGAAAACAGTACTGGAAAAC 600
 Qy
 601 TACCTAATGATGCTTTGGTGGGCGGTCTTTAGCGAGCAGAGCTTGGCCAGG 660
 Db
 601 TACCTAATGATGCTTTGGTGGGCGGTCTTTAGCGAGCAGAGCTTGGCCAGG 660
 Qy
 661 TCTGTTGTTGACTCTGAGAGACATAGCCCACTTCTAGGAGCTGAGAGTCCGCTAC 720
 Db
 661 TCTGTTGTTGACTCTGAGAGACATAGCCCACTTCTAGGAGCTGAGAGTCCGCTAC 720
 Qy
 721 TACCATGAGTAAATCTGATATCTGCGAGATGACAGTGAACAGATGACAGTTGACAC 780
 Db
 721 TACCATGAGTAAATCTGATATCTGCGAGATGACAGTGAACAGATGACAGTTGACAC 780
 Qy
 781 CCAACAGCAACAGCGGAGAAACAGTGCATGCCATGCCATGACAAAGAGCAACCAAG 840
 Db
 781 CCAACAGCAACAGCGGAGAAACAGTGCATGCCATGCCATGACAAAGAGCAACCAAG 840
 Qy
 841 GCAACCTGTTGGGCAACCAAGAGGGCCGAGAGCTCTATGACCAAGAGAAAGAAACA 900
 Db
 841 GCAACCTGTTGGGCAACCAAGAGGGCCGAGAGCTCTATGACCAAGAGAAAGAAACA 900
 Qy
 901 AATATGAGAGGCTATGTTGACACACTGCGAGTAACGAGACTTGTGATTAAGTA 960
 Db
 901 AATATGAGAGGCTATGTTGACACACTGCGAGTAACGAGACTTGTGATTAAGTA 960
 Qy
 961 AGTATGATCAACAGGCTCACTCCAGTGAATGAAAGTGTCTGCGGAAACATGACT 1020
 Db
 961 AGTATGATCAACAGGCTCACTCCAGTGAATGAAAGTGTCTGCGGAAACATGACT 1020
 Qy
 1021 TTAGAGCTCTTCACTCTTTTGAACATATCTGCGCAAGCTTGTGCTCAACAGGGCAAG 1080
 Db
 1021 TTAGAGCTCTTCACTCTTTTGAACATATCTGCGCAAGCTTGTGCTCAACAGGGCAAG 1080
 Qy
 1081 GAGAAATTTTAATGCTCCGCTATGAGAGAGTAATGATTAAGTTGATTTTGGCTT 1140
 Db
 1081 GAGAAATTTTAATGCTCCGCTATGAGAGAGTAATGATTAAGTTGATTTTGGCTT 1140
 Qy
 1141 GCTGTCACTACTTGTCTGGAATATGTTTAATGTTTCTGTAAGCAAAAACAGATTAAG 1200
 Db
 1141 GCTGTCACTACTTGTCTGGAATATGTTTAATGTTTCTGTAAGCAAAAACAGATTAAG 1200
 Qy
 1201 CTATGATCTTTATTAAGG 1218
 Db
 1201 CTATGATCTTTATTAAGG 1218

RESULT 5
 ABL95563
 ID ABL95563 standard; cDNA; 1218 BP.
 XX
 AC ABL95563;
 XX
 DT 19-JUN-2002 (first entry)
 XX
 DE Human angiogenesis related cDNA PRO444 SEQ ID NO: 5.

XX	Human; angiogenesis; PRO protein; cardiovascularisation; wound; cancer
KX	abtherosclerosis; cardiac hypertrophy; gene therapy; endothelial disorder
KW	cardiac; cytoskeletal; antiangiogenic; hypotensive; vulnerability
KM	antiarteriosclerotic; gene; ss.
XX	
OS	Homo sapiens.
XX	
PN	WO200208284-A2.
XX	
PD	31-JAN-2002.
XX	
PF	09-JUL-2001; 2001WO-US021735.
XX	
PR	20-JUL-2000; 2000US-0219556P.
PR	25-JUL-2000; 2000US-0220624P.
PR	25-JUL-2000; 2000US-0220664P.
PR	28-JUL-2000; 2000WO-US020710.
PR	02-AUG-2000; 2000US-0222695P.
PR	17-AUG-2000; 2000US-00643657.
PR	23-AUG-2000; 2000WO-US023528.
PR	24-AUG-2000; 2000WO-US023328.
PR	07-SEP-2000; 2000US-0230978P.
PR	18-SEP-2000; 2000US-00664610.
PR	18-SEP-2000; 2000US-00665350.
PR	24-OCT-2000; 2000US-0242932P.
PR	08-NOV-2000; 2000US-00709238.
PR	08-NOV-2000; 2000WO-US030952.
PR	10-NOV-2000; 2000WO-US030873.
PR	01-DEC-2000; 2000WO-US032578.
PR	20-DEC-2000; 2000US-00747259.
PR	20-DEC-2000; 2000WO-US034956.
PR	22-JAN-2001; 2001US-00767609.
PR	28-FEB-2001; 2001US-00796498.
PR	28-FEB-2001; 2001WO-US006520.
PR	01-MAR-2001; 2001WO-US006666.
PR	09-MAR-2001; 2001US-00802706.
PR	14-MAR-2001; 2001US-00808649.
PR	22-MAR-2001; 2001US-00816744.
PR	05-APR-2001; 2001US-00828366.
PR	10-MAY-2001; 2001US-00854508.
PR	10-MAY-2001; 2001US-00854280.
PR	25-MAY-2001; 2001US-00866028.
PR	25-MAY-2001; 2001US-00866034.
PR	30-MAY-2001; 2001US-00870574.
PR	30-MAY-2001; 2001WO-US017443.
PR	01-JUN-2001; 2001WO-US017800.
PR	20-JUN-2001; 2001WO-US019692.
XX	
PA	(GETH) GENENTECH INC.
PA	(BAKE/) BAKER K P.
PA	(PERR/) PERRARA N.
PA	(GERB/) GERBER H.
PA	(GERR/) GERRITSEN M E.
PA	(GODO/) GODDARD A.
PA	(GODO/) GODDARD P J.
PA	(GURN/) GURNEY A L.
PA	(HILL/) HILLAN K J.
PA	(MARS/) MARSTERS S A.
PA	(PANU/) PAN J.
PA	(PAON/) PAONI N F.
PA	(STEP/) STEPHAN J F.
PA	(WATA/) WATANABE C K.
PA	(WILL/) WILLIAMS P M.
XX	(WOOD/) WOOD W I.
XX	
PI	Baker KP, Ferrara N, Gerber H, Gerritsen ME, Goddard A;
PI	Godowski PJ, Gurney AL, Hillan KJ, Marsters SA, Pan J,
PI	Stephan JF, Watanabe CK, Williams PM, Wood WI, Ye W;
XX	
DR	WPI: 2002-171999/22.
XX	P-PSDB; ABB95425.

[illegible]

QY 781 CCACAGCAAGGCGCCAGAACAGTGCAGTACCCACTGCTGACACACAGAGCCACACAG 840
DB 781 CCAACAGCAAGGCGCCAGAACAGTGCAGTACCCACTGCTGACACACAGAGCCACACAG 840
QY 841 GGACCTGCTGCGCCACCAAGAGAGGCGCCAGAGCTCATGAGCCAGAGAGAGAGAG 900
DB 841 GGACCTGCTGCGCCACCAAGAGAGGCGCCAGAGCTCATGAGCCAGAGAGAGAGAG 900
QY 901 AAATGAGATGGGTAGTGTGACACATGCGAGTAATGCGACTTGTGATAGTA 960
DB 901 AAATGAGATGGGTAGTGTGACACATGCGAGTAATGCGACTTGTGATAGTA 960
QY 961 AGTATCTGACTCAGGCTCAGCTCCAGTGCATGATGAAAGTTTGCCTGAGCAATGCT 1020
DB 961 AGTATCTGACTCAGGCTCAGCTCCAGTGCATGATGAAAGTTTGCCTGAGCAATGCT 1020
QY 1021 TTAGACCTCTTCCAGTCTCTTATAGACATCTGCGCCAGGCTGTGCTACAGGCGAAG 1080
DB 1021 TTAGACCTCTTCCAGTCTCTTATAGACATCTGCGCCAGGCTGTGCTACAGGCGAAG 1080
QY 1081 GAGAAATATTTATGCTCCGCTGATGCGCAGAGTAATGATAGATTGATGTTTGTCT 1140
DB 1081 GAGAAATATTTATGCTCCGCTGATGCGCAGAGTAATGATAGATTGATGTTTGTCT 1140
QY 1141 GCTGTGATCTTCTTCTTGTCTGGAATGCTTAAATGTTTCTGTAGACAAAACGATTAAG 1200
DB 1141 GCTGTGATCTTCTTCTTGTCTGGAATGCTTAAATGTTTCTGTAGACAAAACGATTAAG 1200
QY 1201 CTATGATCTTATTTAGAG 1218
DB 1201 CTATGATCTTATTTAGAG 1218

RESULT 6
ACD42316
ID ACD42316 standard; cDNA; 1218 BP.
XX
AC ACD42316;
XX
DT 05-SEP-2003 (first entry)
XX
DE Novel human secreted and transmembrane protein PRO444 cDNA.
XX
KW Human; secreted and transmembrane protein; PRO; antidiabetic;
KW ophthalmological; cytostatic; immunostimulant; gene therapy;
KW vascular endothelial growth factor inhibitor; hypertrophy of adult heart;
KW protein secretion disorder; pancreas disorder; diabetes;
KW vascular permeability; retinal neuron cell survival; retinal disorder;
KW immune response; inflammation; mononuclear cell infiltration;
KW eosinophil infiltration; apoptosis; neoplastic growth; gene; ss.
XX
OS Homo sapiens.
XX
PN US2003040014-A1.
XX
PD 27-FEB-2003.
XX
PF 01-FEB-2002; 2002US-00066269.
XX
PR 26-AUG-1997; 97US-0066974P.
PR 17-SEP-1997; 97US-0059115P.
PR 18-SEP-1997; 97US-0059263P.
PR 19-SEP-1997; 97US-0059588P.
PR 17-OCT-1997; 97US-0062285P.
PR 24-OCT-1997; 97US-0062816P.
PR 24-OCT-1997; 97US-0063082P.
PR 27-OCT-1997; 97US-0063339P.
PR 29-OCT-1997; 97US-0063733P.
PR 21-NOV-1997; 97US-0066364P.
PR 25-NOV-1997; 97US-0066840P.
PR 16-DEC-1997; 97US-0069694P.
PR 09-FEB-1998; 98US-0074086P.

PR 09-FEB-1998; 98US-0074092P.
PR 25-MAR-1998; 98US-0079294P.
PR 08-APR-1998; 98US-0081049P.
PR 14-JUL-1998; 98US-00814552.
PR 10-AUG-1998; 98US-0095598P.
PR 18-AUG-1998; 98US-0097000P.
PR 09-SEP-1998; 98US-0099601P.
PR 10-SEP-1998; 98US-0099803P.
PR 10-SEP-1998; 98US-0099811P.
PR 10-SEP-1998; 98US-0099812P.
PR 14-SEP-1998; 98US-0099819P.
PR 16-SEP-1998; 98US-0099830P.
PR 17-SEP-1998; 98US-0100858P.
PR 24-SEP-1998; 98US-01019437.
PR 28-OCT-1998; 98US-0101922P.
PR 20-NOV-1998; 98US-0106032P.
PR 20-NOV-1998; 98US-0109304P.
PR 25-NOV-1998; 98US-01024855.
PR 01-DEC-1998; 98US-01025190.
PR 08-MAR-1999; 98US-01025108.
PR 23-MAR-1999; 99US-0125778P.
PR 02-JUN-1999; 99US-0125778P.
PR 15-JUN-1999; 99US-0139695P.
PR 20-JUL-1999; 99US-0145070P.
PR 26-JUL-1999; 99US-0145598P.
PR 17-AUG-1999; 99US-0149596P.
PR 01-SEP-1999; 99US-0149596P.
PR 08-SEP-1999; 99US-0149596P.
PR 15-SEP-1999; 99US-0149596P.
PR 15-SEP-1999; 99US-0149596P.
PR 30-NOV-1999; 99US-0149596P.
PR 01-DEC-1999; 99US-0149596P.
PR 02-DEC-1999; 99US-0149596P.
PR 07-DEC-1999; 99US-0149596P.
PR 20-DEC-1999; 99US-0149596P.
PR 05-JAN-2000; 2000US-0000219.
PR 18-FEB-2000; 2000US-00004341.
PR 18-FEB-2000; 2000US-00004341.
PR 22-FEB-2000; 2000US-00004341.
PR 01-MAR-2000; 2000US-00005601.
PR 02-MAR-2000; 2000US-00005841.
PR 09-MAR-2000; 2000US-00005841.
PR 20-MAR-2000; 2000US-00007377.
PR 30-MAR-2000; 2000US-00008439.
PR 15-MAY-2000; 2000US-00013358.
PR 17-MAY-2000; 2000US-00013705.
PR 22-MAY-2000; 2000US-00014042.
PR 30-MAY-2000; 2000US-00014941.
PR 02-JUN-2000; 2000US-00015264.
PR 11-AUG-2000; 2000US-0002031.
PR 23-AUG-2000; 2000US-00025522.
PR 24-AUG-2000; 2000US-00025328.
PR 01-DEC-2000; 2000US-00032678.
PR 28-FEB-2001; 2001US-00005620.
PR 30-MAY-2001; 2001US-00017443.
PR 01-JUN-2001; 2001US-00017800.
PR 20-JUN-2001; 2001US-00019692.
PR 29-JUN-2001; 2001US-00021066.
PR 09-JUL-2001; 2001US-00021735.
PR 15-NOV-2001; 2001US-00002796.
(GERTH) GENENTECH INC.
XX
PI Ashkenazi AJ, Baker KP, Botstein DA, Desnoyers L, Eaton DL;
PI Ferrera N, Fong S, Gao W, Garber H, Gerltzen ME, Goddard A;
PI Godowski PJ, Guirney AL, Kijavain LJ, Mather JP, Napier MA, Pan J;
PI Paoni NF, Roy MA, Stewart DA, Tumas D, Watanabe CK, Williams PM;
PI Wood WI, Zhang Z;
XX
XX WPI; 2003-503396/47.
XX P-PSDB; ABO25151.

[illegible]

QY	1141	GCCTGATCTTAATTGTTGTGGAATGCTTAATGTTTGTGACGAAAAACAGATAAG	1200
Db	1141	GCCTGATCTTAATTGTTGTGGAATGCTTAATGTTTGTGACGAAAAACAGATAAG	1200
QY	1201	CTATGATCTTTATTTAGAG	1218
Db	1201	CTATGATCTTTATTTAGAG	1218
RESULT 10			
ID	ACA65586	standard, cDNA, 1218 BP.	
XX	ACA65586;		
XX	19-JUN-2003	(first entry)	
DE	Human cDNA encoding secreted/transmembrane protein PRO44.		
XX	Human; ss: gene; secreted protein; transmembrane protein; PRO;		
XX	genetic disorder; gene therapy.		
XX	Homio sapiens.		
XX	US2003032057-A1.		
XX	13-FEB-2003.		
XX	15-NOV-2001, 2001US-00002796.		
XX	26-AUG-1997;	97US-0056974P.	
PR	17-SEP-1997;	97US-0059115P.	
PR	18-SEP-1997;	97US-0059263P.	
PR	19-SEP-1997;	97US-0059588P.	
PR	17-OCT-1997;	97US-0062855P.	
PR	24-OCT-1997;	97US-0062816P.	
PR	24-OCT-1997;	97US-0063082P.	
PR	27-OCT-1997;	97US-0063322P.	
PR	29-OCT-1997;	97US-0063733P.	
PR	21-NOV-1997;	97US-0066364P.	
PR	25-NOV-1997;	97US-0066840P.	
PR	16-DEC-1997;	97US-0069694P.	
PR	09-FEB-1998;	98US-0074086P.	
PR	09-FEB-1998;	98US-0074092P.	
PR	25-MAR-1998;	98US-0078294P.	
PR	08-APR-1998;	98US-0081049P.	
PR	14-JUL-1998;	98WO-US014552.	
PR	10-AUG-1998;	98US-009598P.	
PR	18-AUG-1998;	98US-0097000P.	
PR	09-SEP-1998;	98US-0099601P.	
PR	10-SEP-1998;	98US-0099803P.	
PR	10-SEP-1998;	98US-0099811P.	
PR	10-SEP-1998;	98US-0099812P.	
PR	10-SEP-1998;	98WO-US018824.	
PR	14-SEP-1998;	98WO-US019093.	
PR	16-SEP-1998;	98WO-US019310.	
PR	17-SEP-1998;	98US-0100858P.	
PR	17-SEP-1998;	98WO-US019437.	
PR	24-SEP-1998;	98US-0101922P.	
PR	28-OCT-1998;	98US-0106032P.	
PR	20-NOV-1998;	98US-0109310P.	
PR	20-NOV-1998;	98WO-US024855.	
PR	25-NOV-1998;	98WO-US025190.	
PR	01-DEC-1998;	98WO-US025108.	
PR	08-MAR-1999;	93WO-US005028P.	
PR	23-MAR-1999;	93US-0125778P.	
PR	02-JUN-1999;	93WO-US012252.	
PR	15-JUN-1999;	93US-0139695P.	
PR	20-JUL-1999;	93US-0145070P.	
PR	26-JUL-1999;	93US-0145698P.	
PR	17-AUG-1999;	93US-0149396P.	
PR	01-SEP-1999;	93WO-US020111.	
PR	08-SEP-1999;	93WO-US020594.	

PR 15-SEP-1999; 99WO-US021090.
 PR 15-SEP-1999; 99WO-US021547.
 PR 30-NOV-1999; 99WO-US028313.
 PR 01-DEC-1999; 99WO-US028313.
 PR 07-DEC-1999; 99WO-US028313.
 PR 07-DEC-1999; 99WO-US028313.
 PR 20-DEC-1999; 99WO-US028313.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 18-FEB-2000; 2000WO-US000431.
 PR 18-FEB-2000; 2000WO-US000431.
 PR 22-FEB-2000; 2000WO-US000561.
 PR 01-MAR-2000; 2000WO-US000561.
 PR 02-MAR-2000; 2000WO-US000561.
 PR 09-MAR-2000; 2000WO-US000561.
 PR 20-MAR-2000; 2000WO-US000561.
 PR 30-MAR-2000; 2000WO-US000561.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023522.
 PR 24-AUG-2000; 2000WO-US023528.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US017443.
 PR 30-MAY-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019692.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.

XX (GETH) GENENTECH INC.

PI Ashkenazi AJ, Baker KP, Borstein DA, Desnoyers L, Eaton DJ;
 PI Ferrara N, Fong S, Gao W, Gerder H, Gertlisen M, Goddard A;
 PI Godowski PJ, Gurney AJ, Kijavlin IJ, Mather UP, Napier MA, Pat U;
 PI Paoni NF, Roy MA, Stewart JA, Tumas D, Watanabe CK, Williams PM;
 PI Wood WI, Zhang Z;

XX WPI: 2003-341960/32.
 DR P-PSDB; ABU79780.

XX Novel secreted and transmembrane polypeptide for modulating biological
 PT activity of cell expressing the polypeptide, identifying agonists or
 PT antagonists of polypeptide, and as molecular weight markers.

XX Claim 2; Fig 3; 255pp; English.

XX The invention relates to an isolated, secreted/transmembrane polypeptide,
 CC termed PRO polypeptide, having at least 80% sequence identity to a
 CC sequence selected from any one of the 37 sequences appearing as ABU79779
 CC -ABU79815 or to a sequence encoded by a nucleic acid molecule deposited
 CC under any one of the ATCC numbers given in the specification. Also
 CC included are an isolated nucleic acid molecule having at least 80%
 CC sequence identity to a sequence selected from any one of the 37 cDNA
 CC sequences defined in the specification (or encoding the mature PRO
 CC protein or a PRO protein extracellular domain), a PRO expression vector,
 CC a host cell comprising the vector, PRO fusion proteins, anti-PRO
 CC antibodies and a method for linking a bioactive molecule to a cell
 CC expressing the above PRO polypeptides, the bioactive molecule is a toxin,
 CC radiolabel or an antibody and causes the death of the cell. PRO or the
 CC antibody is useful for modulating at least one biological activity of
 CC cell expressing the above polypeptides. PRO is useful for identifying
 CC agonists or antagonists of PRO, for preparing a variant of PRO, as
 CC molecular weight markers for protein electrophoresis purpose and PRO
 CC nucleic acid is useful for recombinantly expressing those markers. PRO is
 CC also useful as therapeutic agent. PRO is useful in assays to identify
 CC other proteins or molecules involved in binding interaction. PRO nucleic
 CC acid is useful as hybridisation probe, in chromosome and gene mapping,
 CC in generation of antisense RNA and DNA, in the preparation of PRO
 CC polypeptide, in gene therapy, for generating transgenic animals or
 CC knockout animals which in turn are useful in the development and

CC screening of therapeutically useful reagents, to construct hybridisation
 CC probes for mapping the gene which encodes the PRO and for the genetic
 CC analysis of individuals with genetic disorders, for chromosome
 CC identification, as a chromosome marker, and for generating probes for
 CC polymerase chain reaction (PCR), Northern analysis, Southern analysis and
 CC Western analysis. The antibody is useful in diagnostic assays for PRO,
 CC e.g. detecting its expression in specific cells, tissues or serum, for
 CC affinity purification of PRO from recombinant cell culture or natural
 CC sources. PRO or Ab is useful for the preparation of medicament for
 CC treating conditions which is responsive to the PRO polypeptide or anti-
 CC PRO antibody. PRO and PRO nucleic acid are useful for tissue typing. The
 CC present sequence encodes a PRO polypeptide

XX Sequence 1218 bp; 292 A; 299 C; 360 G; 267 T; 0 U; 0 Other;

Query Match 100.0%; Score 1218; DB 8; Length 1218;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACGCGTCCGCGCGCGTGGCTTCGCTGCTGCTTTCCTTCGAGCTGTCA 60
 Db 1 CCCACGCGTCCGCGCGCGTGGCTTCGCTGCTGCTTTCCTTCGAGCTGTCA 60
 QY 61 AAGAGTGGCG 120
 Db 61 AAGAGTGGCG 120
 QY 121 CAGTCCACAGCG 180
 Db 121 CAGTCCACAGCG 180
 QY 181 GAGGTTGGCG 240
 Db 181 GAGGTTGGCG 240
 QY 241 GGAGTGGCG 300
 Db 241 GGAGTGGCG 300
 QY 301 CTGAGAAACAGCG 360
 Db 301 CTGAGAAACAGCG 360
 QY 361 CTGAGAAACAGCG 420
 Db 361 CTGAGAAACAGCG 420
 QY 421 CTGAGAAACAGCG 480
 Db 421 CTGAGAAACAGCG 480
 QY 481 GTAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
 Db 481 GTAGTGAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 540
 QY 541 AATAGATGCAATATCTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 600
 Db 541 AATAGATGCAATATCTCACTCACTCACTCACTCACTCACTCACTCACTCACTCA 600
 QY 601 TACCTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
 Db 601 TACCTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 660
 QY 661 TCTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
 Db 661 TCTGTTGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 720
 QY 721 TACCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
 Db 721 TACCAATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 780
 QY 781 CCAACAGCAACAGCG 840

Db 781 CCAACAGCAACAGCCGAGACAGTACACCTGCTGACACAGAGCCAAACCG 840
 Qy 841 GGAACCTGTCGCGCCACCAAGAGGGGCGAGAGCTCTGAGCCAAAGAAACA 900
 Db 841 GGAACCTGTCGCGCCACCAAGAGGGGCGAGAGCTCTGAGCCAAAGAAACA 900
 Qy 901 AAATGATGATGAGCTAGTGTGAGACACTGCGAGTAATGAGACTTTGATAGTA 960
 Db 901 AAATGATGATGAGCTAGTGTGAGACACTGCGAGTAATGAGACTTTGATAGTA 960
 Qy 961 AATATGATGATGAGCTAGTGTGAGACACTGCGAGTAATGAGACTTTGATAGTA 1020
 Db 961 AATATGATGATGAGCTAGTGTGAGACACTGCGAGTAATGAGACTTTGATAGTA 1020
 Qy 1021 TTAGAGCTCCTCAGTTCCTTTAGAGACATACCTGCGAACCTTGTCTCACAGGCGAAAG 1080
 Db 1021 TTAGAGCTCCTCAGTTCCTTTAGAGACATACCTGCGAACCTTGTCTCACAGGCGAAAG 1080
 Qy 1081 GAGAAATATTTAATGCTCGCGATGAGAGAGTAATGATTTGATTTGCTT 1140
 Db 1081 GAGAAATATTTAATGCTCGCGATGAGAGAGTAATGATTTGATTTGCTT 1140
 Qy 1141 GCTGCTATCTACTTGTCTGGAATGTCTAAATGTTCTGTAGCAAGAAACGATTAAG 1200
 Db 1141 GCTGCTATCTACTTGTCTGGAATGTCTAAATGTTCTGTAGCAAGAAACGATTAAG 1200
 Qy 1201 CTATGATCTTTATTAGAG 1218
 Db 1201 CTATGATCTTTATTAGAG 1218

RESULT 11
 ID ACD68242 standard; cDNA; 1218 BP.
 AC ACD68242;
 XX
 DT 17-SEP-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO444 cDNA.
 XX
 KW Human; secreted and transmembrane protein; PRO; angiogenesis;
 KW endothelial cell proliferation; wound healing; immune response;
 KW T-lymphocytes proliferation; neonatal heart hypertrophy; tumour;
 KW cardiac insufficiency disorder; calcium flux; inflammation;
 KW vascular endothelial growth factor-stimulated proliferation;
 KW mammalian kidney mesangial cell proliferation; Berger disease;
 KW nephropathy; Schanlein-Henoch purpura; celiac disease; Crohn's disease;
 KW dermatitis herpetiformis; diabetes; haemoglobin switch; thalassemia;
 KW pancreatic beta-cell precursor cell differentiation; thalassemia;
 KW obesity; auditory hair cell regeneration; hearing loss; bone disorder;
 KW cartilage disorder; sports injury; arthritis; gene; ss.
 OS Homo sapiens.
 EN US2003073130-A1.
 XX
 PD 17-APR-2003.
 XX
 PF 11-DEC-2001; 2001US-00015869.
 XX
 PR 01-SEP-1998; 98US-0098716P.
 PR 01-SEP-1998; 98US-0098723P.
 PR 01-SEP-1998; 98US-0098749P.
 PR 01-SEP-1998; 98US-0098750P.
 PR 02-SEP-1998; 98US-0098803P.
 PR 02-SEP-1998; 98US-0098821P.
 PR 02-SEP-1998; 98US-0098843P.
 PR 02-SEP-1998; 98US-0098936P.
 PR 02-SEP-1998; 98US-0098956P.
 PR 02-SEP-1998; 98US-0098958P.
 PR 02-SEP-1998; 98US-0098960P.
 PR 09-SEP-1998; 98US-0099642P.

PR 10-SEP-1998; 98US-0099741P.
 PR 10-SEP-1998; 98US-0099754P.
 PR 10-SEP-1998; 98US-0099763P.
 PR 10-SEP-1998; 98US-0099792P.
 PR 10-SEP-1998; 98US-0099808P.
 PR 10-SEP-1998; 98US-0099812P.
 PR 10-SEP-1998; 98US-0099815P.
 PR 10-SEP-1998; 98US-0099816P.
 PR 10-SEP-1998; 98US-0100385P.
 PR 15-SEP-1998; 98US-0100388P.
 PR 15-SEP-1998; 98US-0100390P.
 PR 15-SEP-1998; 98US-0100644P.
 PR 16-SEP-1998; 98US-0100647P.
 PR 16-SEP-1998; 98US-0100651P.
 PR 16-SEP-1998; 98US-0100662P.
 PR 16-SEP-1998; 98US-0100664P.
 PR 16-SEP-1998; 98US-0100683P.
 PR 17-SEP-1998; 98US-0100684P.
 PR 17-SEP-1998; 98US-0100710P.
 PR 17-SEP-1998; 98US-0100711P.
 PR 17-SEP-1998; 98US-0100919P.
 PR 17-SEP-1998; 98US-0100930P.
 PR 17-SEP-1998; 98US-0100848P.
 PR 18-SEP-1998; 98US-0100849P.
 PR 18-SEP-1998; 98US-0101014P.
 PR 18-SEP-1998; 98US-0101068P.
 PR 18-SEP-1998; 98US-0101071P.
 PR 18-SEP-1998; 98US-0101279P.
 PR 22-SEP-1998; 98US-0101472P.
 PR 23-SEP-1998; 98US-0101472P.
 PR 23-SEP-1998; 98US-0101474P.
 PR 23-SEP-1998; 98US-0101475P.
 PR 23-SEP-1998; 98US-0101476P.
 PR 23-SEP-1998; 98US-0101477P.
 PR 23-SEP-1998; 98US-0101479P.
 PR 24-SEP-1998; 98US-0101738P.
 PR 24-SEP-1998; 98US-0101741P.
 PR 24-SEP-1998; 98US-0101915P.
 PR 24-SEP-1998; 98US-0101916P.
 PR 29-SEP-1998; 98US-0102207P.
 PR 29-SEP-1998; 98US-0102240P.
 PR 29-SEP-1998; 98US-0102307P.
 PR 29-SEP-1998; 98US-0102330P.
 PR 29-SEP-1998; 98US-0102331P.
 PR 30-SEP-1998; 98US-0102484P.
 PR 30-SEP-1998; 98US-0102487P.
 PR 30-SEP-1998; 98US-0102570P.
 PR 30-SEP-1998; 98US-0102571P.
 PR 01-OCT-1998; 98US-0102684P.
 PR 01-OCT-1998; 98US-0102687P.
 PR 02-OCT-1998; 98US-0102965P.
 PR 06-OCT-1998; 98US-0103258P.
 PR 06-OCT-1998; 98US-0103449P.
 PR 07-OCT-1998; 98US-0103314P.
 PR 07-OCT-1998; 98US-0103315P.
 PR 07-OCT-1998; 98US-0103328P.
 PR 07-OCT-1998; 98US-0103359P.
 PR 07-OCT-1998; 98US-0103360P.
 PR 07-OCT-1998; 98US-0103401P.
 PR 08-OCT-1998; 98US-0103633P.
 PR 08-OCT-1998; 98US-0103678P.
 PR 08-OCT-1998; 98US-0103679P.
 PR 08-OCT-1998; 98US-0103711P.
 PR 14-OCT-1998; 98US-0104257P.
 PR 20-OCT-1998; 98US-0104987P.
 PR 20-OCT-1998; 98US-0105000P.
 PR 20-OCT-1998; 98US-0105002P.
 PR 21-OCT-1998; 98US-0105104P.
 PR 22-OCT-1998; 98US-0105169P.
 PR 22-OCT-1998; 98US-0105266P.
 PR 26-OCT-1998; 98US-0105693P.
 PR 26-OCT-1998; 98US-0105694P.
 PR 27-OCT-1998; 98US-0105807P.

Db 781 CCAACGACGAGGCGGAGAGACAGTACAGTACCCACTGCTGACACAGAGCCACACG 840
 Qy 841 GGAACCTGTTGGCCCAACAGAGGAGGAGAGAGCTGATGAGCCAGAGAGAGAGAGCA 900
 Db 841 GGAACCTGTTGGCCCAACAGAGGAGGAGAGAGAGCTGATGAGCCAGAGAGAGAGCA 900
 Qy 901 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
 Db 901 AATATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 960
 Qy 961 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
 Db 961 AGTATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1020
 Qy 1021 TTGAGACTCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
 Db 1021 TTGAGACTCCTTATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1080
 Qy 1081 GAGATATTTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
 Db 1081 GAGATATTTTAAATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1140
 Qy 1141 GCTGTATCTACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1200
 Db 1141 GCTGTATCTACTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTTCTT 1200
 Qy 1201 CTATGATCTTATTAAG 1218
 Db 1201 CTATGATCTTATTAAG 1218

RESULT 12
 ID ADA47180 standard; cDNA; 1218 BP.
 XX
 AC ADA47180;
 DT 20-NOV-2003 (first entry)
 XX
 DE Human secreted/transmembrane polypeptide PRO444 cDNA.
 XX
 KW human; sg; gene; secreted protein; transmembrane protein; PRO;
 KW VEGF inhibitor; vascular endothelial growth factor;
 KW endothelial cell proliferation; T-lymphocyte proliferation;
 KW endothelial cell apoptosis; c-fos stimulation;
 KW pancreatic beta cell differentiation; chondrocyte proliferation;
 KW glucose uptake; free fatty acid; FFA uptake; tissue typing.
 XX
 OS Homo sapiens.
 XX
 PN US2003044844-A1.
 PD 06-MAR-2003.
 XX
 PF 01-FEB-2002; 2002US-00066211.
 XX
 PR 26-AUG-1997; 97US-0056974P.
 PR 17-SEP-1997; 97US-0059115P.
 PR 16-SEP-1997; 97US-0059263P.
 PR 19-SEP-1997; 97US-0059588P.
 PR 17-OCT-1997; 97US-0062285P.
 PR 24-OCT-1997; 97US-0062816P.
 PR 24-OCT-1997; 97US-0063082P.
 PR 27-OCT-1997; 97US-0063329P.
 PR 29-OCT-1997; 97US-0063733P.
 PR 21-NOV-1997; 97US-0063634P.
 PR 25-NOV-1997; 97US-0066840P.
 PR 16-DEC-1997; 97US-0069634P.
 PR 09-FEB-1998; 98US-0074086P.
 PR 09-FEB-1998; 98US-0074092P.
 PR 25-MAR-1998; 98US-0079294P.
 PR 08-APR-1998; 98US-0081049P.
 PR 14-JUL-1998; 98WO-US014552.

PR 10-AUG-1998; 98US-0095989P.
 PR 18-AUG-1998; 98US-0097000P.
 PR 09-SEP-1998; 98US-0099601P.
 PR 10-SEP-1998; 98US-0099803P.
 PR 10-SEP-1998; 98US-0099811P.
 PR 10-SEP-1998; 98US-0099812P.
 PR 10-SEP-1998; 98WO-US018824.
 PR 14-SEP-1998; 98WO-US019093.
 PR 16-SEP-1998; 98WO-US019330.
 PR 17-SEP-1998; 98US-0100688P.
 PR 17-SEP-1998; 98WO-US019437.
 PR 24-SEP-1998; 98US-0101942P.
 PR 28-OCT-1998; 98US-0106032P.
 PR 20-NOV-1998; 98US-0109304P.
 PR 20-NOV-1998; 98WO-US024855.
 PR 25-NOV-1998; 98WO-US025190.
 PR 01-DEC-1998; 98WO-US025108.
 PR 08-MAR-1999; 99WO-US005028.
 PR 23-MAR-1999; 99US-0125778P.
 PR 02-JUN-1999; 99WO-US012252.
 PR 15-JUN-1999; 99US-0139695P.
 PR 20-JUL-1999; 99US-0145070P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 17-AUG-1999; 99US-0149396P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 08-SEP-1999; 99WO-US020594.
 PR 15-SEP-1999; 99WO-US021090.
 PR 30-NOV-1999; 99WO-US021547.
 PR 01-DEC-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028301.
 PR 07-DEC-1999; 99WO-US028565.
 PR 20-DEC-1999; 99US-0164985P.
 PR 05-JAN-2000; 99WO-US030939.
 PR 18-FEB-2000; 2000WO-US000219.
 PR 18-FEB-2000; 2000WO-US004341.
 PR 22-FEB-2000; 2000WO-US004414.
 PR 01-MAR-2000; 2000WO-US005601.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 09-MAR-2000; 2000WO-US006471.
 PR 20-MAR-2000; 2000WO-US007377.
 PR 30-MAR-2000; 2000WO-US008439.
 PR 15-MAY-2000; 2000WO-US013358.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 11-AUG-2000; 2000WO-US022031.
 PR 23-AUG-2000; 2000WO-US023352.
 PR 24-AUG-2000; 2000WO-US023328.
 PR 01-DEC-2000; 2000WO-US032678.
 PR 28-FEB-2001; 2001WO-US006520.
 PR 30-MAY-2001; 2001WO-US017443.
 PR 01-JUN-2001; 2001WO-US017800.
 PR 20-JUN-2001; 2001WO-US019832.
 PR 29-JUN-2001; 2001WO-US021066.
 PR 09-JUL-2001; 2001WO-US021735.
 PR 15-NOV-2001; 2001US-00002796.
 XX
 PA (GENTH) GENTECH INC.
 XX
 PI Ashkenazi AJ, Baker KP, Botstein DA, Deenoyers L, Eaton DL,
 PI Ferrara N, Fong S, Gao W, Gerber H, Gerritsen ME, Goddard A,
 PI Godowski PJ, Gurney AL, Kijavlin IU, Mather JP, Napier MA, Pan J,
 PI Paoni NF, Roy NM, Stewart RA, Tumas D, Watanabe CK, Williams PM,
 PI Wood WI, Zhang Z;
 XX
 DR WPI: 2003-615775/58.
 DR P-PDB; ADA47181.
 XX
 PT Novel isolated PRO polypeptides e.g. PRO365 and PRO187, useful for
 inducing redifferentiation and/or proliferation of chondrocytes, and for
 modulating glucose or free fatty acid uptake by skeletal muscle cells.

PR 01-SEP-1998; 98US-0098749P.
 PR 01-SEP-1998; 98US-0098750P.
 PR 02-SEP-1998; 98US-0098803P.
 PR 02-SEP-1998; 98US-0098821P.
 PR 02-SEP-1998; 98US-0098843P.
 PR 09-SEP-1998; 98US-0098936P.
 PR 09-SEP-1998; 98US-0098956P.
 PR 09-SEP-1998; 98US-0098982P.
 PR 09-SEP-1998; 98US-0099022P.
 PR 09-SEP-1998; 98US-0099642P.
 PR 10-SEP-1998; 98US-0099741P.
 PR 10-SEP-1998; 98US-0099754P.
 PR 10-SEP-1998; 98US-0099763P.
 PR 10-SEP-1998; 98US-0099792P.
 PR 10-SEP-1998; 98US-0099808P.
 PR 10-SEP-1998; 98US-0099812P.
 PR 10-SEP-1998; 98US-0099815P.
 PR 10-SEP-1998; 98US-0099816P.
 PR 15-SEP-1998; 98US-0100385P.
 PR 15-SEP-1998; 98US-0100388P.
 PR 15-SEP-1998; 98US-0100390P.
 PR 16-SEP-1998; 98US-0100584P.
 PR 16-SEP-1998; 98US-0100627P.
 PR 16-SEP-1998; 98US-0100661P.
 PR 16-SEP-1998; 98US-0100662P.
 PR 16-SEP-1998; 98US-0100664P.
 PR 17-SEP-1998; 98US-0100683P.
 PR 17-SEP-1998; 98US-0100684P.
 PR 17-SEP-1998; 98US-0100710P.
 PR 17-SEP-1998; 98US-0100711P.
 PR 17-SEP-1998; 98US-0100919P.
 PR 17-SEP-1998; 98US-0100930P.
 PR 18-SEP-1998; 98US-0100848P.
 PR 18-SEP-1998; 98US-0100849P.
 PR 18-SEP-1998; 98US-0101014P.
 PR 18-SEP-1998; 98US-0101068P.
 PR 18-SEP-1998; 98US-0101071P.
 PR 22-SEP-1998; 98US-0101779P.
 PR 23-SEP-1998; 98US-0101771P.
 PR 23-SEP-1998; 98US-0101772P.
 PR 23-SEP-1998; 98US-0101742P.
 PR 23-SEP-1998; 98US-0101743P.
 PR 23-SEP-1998; 98US-0101752P.
 PR 23-SEP-1998; 98US-0101766P.
 PR 23-SEP-1998; 98US-0101477P.
 PR 23-SEP-1998; 98US-0101479P.
 PR 24-SEP-1998; 98US-0101738P.
 PR 24-SEP-1998; 98US-0101741P.
 PR 24-SEP-1998; 98US-0101743P.
 PR 24-SEP-1998; 98US-0101915P.
 PR 24-SEP-1998; 98US-0101916P.
 PR 29-SEP-1998; 98US-0102307P.
 PR 29-SEP-1998; 98US-0102307P.
 PR 29-SEP-1998; 98US-0102330P.
 PR 29-SEP-1998; 98US-0102331P.
 PR 30-SEP-1998; 98US-0102487P.
 PR 30-SEP-1998; 98US-0102487P.
 PR 30-SEP-1998; 98US-0102570P.
 PR 30-SEP-1998; 98US-0102571P.
 PR 01-OCT-1998; 98US-0102684P.
 PR 01-OCT-1998; 98US-0102687P.
 PR 02-OCT-1998; 98US-0102965P.
 PR 06-OCT-1998; 98US-0103258P.
 PR 06-OCT-1998; 98US-0103449P.
 PR 07-OCT-1998; 98US-0103315P.
 PR 07-OCT-1998; 98US-0103328P.
 PR 07-OCT-1998; 98US-0103395P.
 PR 07-OCT-1998; 98US-0103396P.
 PR 07-OCT-1998; 98US-0103401P.
 PR 08-OCT-1998; 98US-0103633P.
 PR 08-OCT-1998; 98US-0103678P.
 PR 08-OCT-1998; 98US-0103679P.

PR 08-OCT-1998; 98US-0103711P.
 PR 14-OCT-1998; 98US-0104257P.
 PR 20-OCT-1998; 98US-0104987P.
 PR 20-OCT-1998; 98US-0105007P.
 PR 20-OCT-1998; 98US-0105002P.
 PR 21-OCT-1998; 98US-0105104P.
 PR 22-OCT-1998; 98US-0105169P.
 PR 22-OCT-1998; 98US-0105266P.
 PR 25-OCT-1998; 98US-0105693P.
 PR 26-OCT-1998; 98US-0105694P.
 PR 27-OCT-1998; 98US-0105807P.
 PR 27-OCT-1998; 98US-0105881P.
 PR 27-OCT-1998; 98US-0105882P.
 PR 27-OCT-1998; 98US-0106022P.
 PR 28-OCT-1998; 98US-0106023P.
 PR 28-OCT-1998; 98US-0106029P.
 PR 28-OCT-1998; 98US-0106030P.
 PR 28-OCT-1998; 98US-0106032P.
 PR 28-OCT-1998; 98US-0106033P.
 PR 28-OCT-1998; 98US-0106178P.
 PR 29-OCT-1998; 98US-0106248P.
 PR 29-OCT-1998; 98US-0106384P.
 PR 29-OCT-1998; 98US-0106500P.
 PR 30-OCT-1998; 98US-0106464P.
 PR 03-NOV-1998; 98US-0106856P.
 PR 03-NOV-1998; 98US-0106902P.
 PR 03-NOV-1998; 98US-0106905P.
 PR 03-NOV-1998; 98US-0106919P.
 PR 03-NOV-1998; 98US-0106932P.
 PR 03-NOV-1998; 98US-0106934P.
 PR 10-NOV-1998; 98US-0107783P.
 PR 17-NOV-1998; 98US-0108775P.
 PR 17-NOV-1998; 98US-0108779P.
 PR 17-NOV-1998; 98US-0108787P.
 PR 17-NOV-1998; 98US-0108788P.
 PR 17-NOV-1998; 98US-0108801P.
 PR 17-NOV-1998; 98US-0108802P.
 PR 17-NOV-1998; 98US-0108806P.
 PR 17-NOV-1998; 98US-0108807P.
 PR 17-NOV-1998; 98US-0108867P.
 PR 17-NOV-1998; 98US-0108925P.
 PR 18-NOV-1998; 98US-0108848P.
 PR 18-NOV-1998; 98US-0108849P.
 PR 18-NOV-1998; 98US-0108850P.
 PR 18-NOV-1998; 98US-0108851P.
 PR 18-NOV-1998; 98US-0108852P.
 PR 18-NOV-1998; 98US-0108859P.
 PR 18-NOV-1998; 98US-0108904P.
 PR 22-DEC-1998; 98US-0113296P.
 PR 30-DEC-1998; 98US-0114223P.
 PR 05-JAN-1999; 99WO-US000106.
 PR 16-APR-1999; 99US-0129674P.
 PR 23-JUN-1999; 99US-0141037P.
 PR 20-JUL-1999; 99US-0144758P.
 PR 26-JUL-1999; 99US-0145698P.
 PR 01-SEP-1999; 99WO-US020111.
 PR 15-SEP-1999; 99WO-US021194.
 PR 29-OCT-1999; 99US-0162506P.
 PR 30-NOV-1999; 99WO-US028313.
 PR 02-DEC-1999; 99WO-US028551.
 PR 16-DEC-1999; 99WO-US030095.
 PR 05-JAN-2000; 2000WO-US000219.
 PR 06-JAN-2000; 2000WO-US000376.
 PR 11-FEB-2000; 2000WO-US003565.
 PR 18-FEB-2000; 2000WO-US004342.
 PR 24-FEB-2000; 2000WO-US005004.
 PR 02-MAR-2000; 2000WO-US005841.
 PR 13-MAR-2000; 2000WO-US006884.
 PR 17-MAY-2000; 2000WO-US013705.
 PR 22-MAY-2000; 2000WO-US014042.
 PR 30-MAY-2000; 2000WO-US014941.
 PR 02-JUN-2000; 2000WO-US015264.
 PR 23-AUG-2000; 2000WO-US023522.

PR 24-AUG-2000; 2000MO-US023328.
 PR 08-NOV-2000; 2000MO-US030952.
 PR 10-NOV-2000; 2000MO-US030873.
 PR 01-DEC-2000; 2000MO-US032678.
 PR 28-FEB-2001; 2001MO-US006520.
 PR 01-MAR-2001; 2001MO-US006666.
 PR 20-JUN-2001; 2001MO-US017800.
 PR 20-JUN-2001; 2001MO-US019692.
 PR 29-JUN-2001; 2001MO-US021066.
 PR 09-JUL-2001; 2001MO-US021735.
 PR 04-SEP-2001; 2001US-00946374.
 XX
 PA (GETH) GENENTECH INC.
 XX Baker KP, Botstein D, Desnoyers L, Eaton DL, Ferrara N, Fong S,
 PI Gao W, Goddard A, Godowski PJ, Grimaldi JC, Gurney AL, Hillan KJ,
 PI Pan J, Piont NF, Roy MA, Smith V, Stewart TA, Tumas D, Watanabe CK,
 PI Williams PM, Wood WI;
 XX WPI; 2003-492259/46.
 DR P-PSDB; ABO44436.
 XX
 PT Novel secreted and transmembrane polypeptides and polynucleotides
 PT encoding them useful for treating various cardiac insufficiency
 PT disorders, bone and/or cartilage disorders such as sports injuries and
 PT arthritis.

Query Match 100.0%; Score 1218; DB 8; Length 1218;
 Best Local Similarity 100.0%; Pred. No. 0;
 Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 CCCACGCTCCGCGCCGCTGCTCCATCTTTGCCGTTCTTCGAGACCTGTACA 60
 DB 1 CCCACGCTCCGCGCCGCTGCTCCATCTTTGCCGTTCTTCGAGACCTGTACA 60
 QY 61 AAGAGTGGCGCCGCGCCGCTCCCTCCGCTGCGCGCCGCGAGAGTGAAGAAGT 120
 DB 61 AAGAGTGGCGCCGCGCCGCTCCCTCCGCTGCGCGCCGCGAGAGTGAAGAAGT 120
 QY 121 CAGTGGCCAGCCGAGCCGCGCTGCTGAGACCTTCGCGAGCGGAGAGGAGTCT 180
 DB 121 CAGTGGCCAGCCGAGCCGCGCTGCTGAGACCTTCGCGAGCGGAGAGGAGTCT 180
 QY 121 CAGTGGCCAGCCGAGCCGCGCTGCTGAGACCTTCGCGAGCGGAGAGGAGTCT 180
 DB 121 CAGTGGCCAGCCGAGCCGCGCTGCTGAGACCTTCGCGAGCGGAGAGGAGTCT 180
 QY 181 GAGGTTGGGAGCGTCTGTGAGAGGAGGAGCCGCTCAGAGCTGGCGCGCGAGC 240
 DB 181 GAGGTTGGGAGCGTCTGTGAGAGGAGGAGCCGCTCAGAGCTGGCGCGCGAGC 240
 QY 241 GAGTGGGCGCGGCGGTAGGCTCTGGAAGGCGCCGCGAGAGAGTGGCTGAGAC 300
 DB 241 GAGTGGGCGCGGCGGTAGGCTCTGGAAGGCGCCGCGAGAGAGTGGCTGAGAC 300
 QY 301 CTGAGAAACAGCCGAGAGGTTTCCACGAGGCGCGCTGAGAGGATCTGAAGGTTG 360
 DB 301 CTGAGAAACAGCCGAGAGGTTTCCACGAGGCGCGCTGAGAGGATCTGAAGGTTG 360
 QY 361 CTAGAAAGGGGTCTCCCTCTTTTGGGGTCTCTCAAGAAAGAGTTCTTGGGGTGC 420
 DB 361 CTAGAAAGGGGTCTCCCTCTTTTGGGGTCTCTCAAGAAAGAGTTCTTGGGGTGC 420
 QY 421 CTTCTGAGAGGCGCTGCGCTTAAAGGCGCCAGAACTGCGATTCAGTTCAGAAATCCCT 480
 DB 421 CTTCTGAGAGGCGCTGCGCTTAAAGGCGCCAGAACTGCGATTCAGTTCAGAAATCCCT 480
 QY 481 GTAGTTGATTAATGTTGGGAATAGCTGTCAACTTTCTTTGGCAATTCAGTTGTTAAAC 540
 DB 481 GTAGTTGATTAATGTTGGGAATAGCTGTCAACTTTCTTTGGCAATTCAGTTGTTAAAC 540
 QY 541 AAATGAGATGCAAAATTTCTCACTCCAGGTTATGAAAACAGTCTGAAAACGAAAAC 600
 DB 541 AAATGAGATGCAAAATTTCTCACTCCAGGTTATGAAAACAGTCTGAAAACGAAAAC 600
 QY 601 TACCTAAATGATGCTTTTGGTGGCGGTGTTCTTACGAGCAAGACCTTGGCCAGG 660
 DB 601 TACCTAAATGATGCTTTTGGTGGCGGTGTTCTTACGAGCAAGACCTTGGCCAGG 660

DB 601 TACCTAAATGATGCTTTTGGTGGCGGTGTTCTTACGAGCAAGACCTTGGCCAGG 660
 QY 661 TCTGTGTGATCTCTGAAGAGCATATGACCACCTCTCTAGGAGTGTGCGCTAC 720
 DB 661 TCTGTGTGATCTCTGAAGAGCATATGACCACCTCTCTAGGAGTGTGCGCTAC 720
 QY 721 TACCATGGGTAATTCCTGTATTCGCGAGATGACAGTGGAAACAGTATGACGTGTGAAC 780
 DB 721 TACCATGGGTAATTCCTGTATTCGCGAGATGACAGTGGAAACAGTATGACGTGTGAAC 780
 QY 781 CCAACAGCAAGCGCGAGAACAGTGCATGACCCACTGTCACACAGAGCCACACG 840
 DB 781 CCAACAGCAAGCGCGAGAACAGTGCATGACCCACTGTCACACAGAGCCACACG 840
 QY 841 GGAACCTGTGGCGCCACCAAGAGGCGCGAGACCTCATGAGCCAGAGAGAAACA 900
 DB 841 GGAACCTGTGGCGCCACCAAGAGGCGCGAGACCTCATGAGCCAGAGAGAAACA 900
 QY 901 AAATGAGATGGGCTAGTGTGAGACCACTGCGAGTAATAGGACTCTTGTATAGTA 960
 DB 901 AAATGAGATGGGCTAGTGTGAGACCACTGCGAGTAATAGGACTCTTGTATAGTA 960
 QY 961 AGTATCTGACTCAGGCTCAGCTCCAGTGAATGAAAAGTGTCTGCGGAAACATGACT 1020
 DB 961 AGTATCTGACTCAGGCTCAGCTCCAGTGAATGAAAAGTGTCTGCGGAAACATGACT 1020
 QY 1021 TTGAGACTCTTCAAGTCTCTTGAAGACATCTGCGCAACCTTGTGCTCAGAGGCAAG 1080
 DB 1021 TTGAGACTCTTCAAGTCTCTTGAAGACATCTGCGCAACCTTGTGCTCAGAGGCAAG 1080
 QY 1081 GAGAAATTTTATGCTCCGCTGATGCGAGATGAATGATTTGATTTTGTGCTT 1140
 DB 1081 GAGAAATTTTATGCTCCGCTGATGCGAGATGAATGATTTGATTTTGTGCTT 1140
 QY 1141 GCTGTATCTACTTTGTCTGGAATGTCTAAATGTTTCTGTAGCAAGAAACAGATAAG 1200
 DB 1141 GCTGTATCTACTTTGTCTGGAATGTCTAAATGTTTCTGTAGCAAGAAACAGATAAG 1200
 QY 1201 CTATGATCTTTTATGAG 1218
 DB 1201 CTATGATCTTTTATGAG 1218
 RESULT 14
 ACD67888
 ID ACD67888 standard; cDNA; 1218 BP.
 AC ACD67888;
 XX
 DT 17-SEP-2003 (first entry)
 XX
 DE Novel human secreted and transmembrane protein PRO444 cDNA.
 XX
 KW Human; secreted and transmembrane protein; PRO; gene therapy; vaccine;
 KW tissue typing; chromosome identification; vaccine; gene; ss.
 XX
 OS Homo sapiens.
 OS
 PN US2003073129-A1.
 PN
 PD 17-APR-2003.
 XX
 FE 04-SEP-2001; 2001US-00946374.
 XX
 PR 01-SEP-1998; 98US-0098716P.
 PR 01-SEP-1998; 98US-0098723P.
 PR 01-SEP-1998; 98US-0098749P.
 PR 01-SEP-1998; 98US-0098750P.
 PR 02-SEP-1998; 98US-0098803P.
 PR 02-SEP-1998; 98US-0098821P.
 PR 02-SEP-1998; 98US-0098843P.
 PR 09-SEP-1998; 98US-0099536P.
 PR 09-SEP-1998; 98US-0099596P.

PR 09-SEP-1998; 98US-0099598P.
PR 09-SEP-1998; 98US-0099602P.
PR 09-SEP-1998; 98US-0099642P.
PR 10-SEP-1998; 98US-0099741P.
PR 10-SEP-1998; 98US-0099754P.
PR 10-SEP-1998; 98US-0099763P.
PR 10-SEP-1998; 98US-0099792P.
PR 10-SEP-1998; 98US-0099808P.
PR 10-SEP-1998; 98US-0099812P.
PR 10-SEP-1998; 98US-0099815P.
PR 10-SEP-1998; 98US-0099816P.
PR 10-SEP-1998; 98US-0100385P.
PR 15-SEP-1998; 98US-0100388P.
PR 15-SEP-1998; 98US-0100390P.
PR 16-SEP-1998; 98US-0100584P.
PR 16-SEP-1998; 98US-0100627P.
PR 16-SEP-1998; 98US-0100661P.
PR 16-SEP-1998; 98US-0100662P.
PR 16-SEP-1998; 98US-0100664P.
PR 17-SEP-1998; 98US-0100683P.
PR 17-SEP-1998; 98US-0100684P.
PR 17-SEP-1998; 98US-0100710P.
PR 17-SEP-1998; 98US-0100711P.
PR 17-SEP-1998; 98US-0100919P.
PR 17-SEP-1998; 98US-0100930P.
PR 18-SEP-1998; 98US-0100848P.
PR 18-SEP-1998; 98US-0100849P.
PR 18-SEP-1998; 98US-0101014P.
PR 18-SEP-1998; 98US-0101068P.
PR 18-SEP-1998; 98US-0101071P.
PR 22-SEP-1998; 98US-0101279P.
PR 23-SEP-1998; 98US-0101471P.
PR 23-SEP-1998; 98US-0101472P.
PR 23-SEP-1998; 98US-0101474P.
PR 23-SEP-1998; 98US-0101475P.
PR 23-SEP-1998; 98US-0101476P.
PR 23-SEP-1998; 98US-0101477P.
PR 23-SEP-1998; 98US-0101479P.
PR 24-SEP-1998; 98US-0101730P.
PR 24-SEP-1998; 98US-0101741P.
PR 24-SEP-1998; 98US-0101743P.
PR 24-SEP-1998; 98US-0101915P.
PR 24-SEP-1998; 98US-0101916P.
PR 29-SEP-1998; 98US-0102207P.
PR 29-SEP-1998; 98US-0102240P.
PR 29-SEP-1998; 98US-0102307P.
PR 29-SEP-1998; 98US-0102330P.
PR 29-SEP-1998; 98US-0102331P.
PR 30-SEP-1998; 98US-0102484P.
PR 30-SEP-1998; 98US-0102487P.
PR 30-SEP-1998; 98US-0102571P.
PR 30-SEP-1998; 98US-0102571P.
PR 01-OCT-1998; 98US-0102684P.
PR 01-OCT-1998; 98US-0102687P.
PR 02-OCT-1998; 98US-0102965P.
PR 06-OCT-1998; 98US-0103258P.
PR 06-OCT-1998; 98US-0103314P.
PR 07-OCT-1998; 98US-0103315P.
PR 07-OCT-1998; 98US-0103328P.
PR 07-OCT-1998; 98US-0103395P.
PR 07-OCT-1998; 98US-0103396P.
PR 07-OCT-1998; 98US-0103401P.
PR 08-OCT-1998; 98US-0103633P.
PR 08-OCT-1998; 98US-0103679P.
PR 08-OCT-1998; 98US-0103711P.
PR 14-OCT-1998; 98US-0104257P.
PR 20-OCT-1998; 98US-010487P.
PR 20-OCT-1998; 98US-010500P.
PR 21-OCT-1998; 98US-0105002P.
PR 21-OCT-1998; 98US-0105104P.
PR 22-OCT-1998; 98US-0105169P.
PR 22-OCT-1998; 98US-0105266P.
PR 26-OCT-1998; 98US-0105693P.
PR 26-OCT-1998; 98US-0105694P.
PR 27-OCT-1998; 98US-0105807P.
PR 27-OCT-1998; 98US-0105812P.
PR 27-OCT-1998; 98US-0105822P.
PR 27-OCT-1998; 98US-0106062P.
PR 28-OCT-1998; 98US-0106062P.
PR 28-OCT-1998; 98US-0106030P.
PR 28-OCT-1998; 98US-0106032P.
PR 28-OCT-1998; 98US-0106033P.
PR 28-OCT-1998; 98US-0106178P.
PR 29-OCT-1998; 98US-0106248P.
PR 29-OCT-1998; 98US-0106348P.
PR 29-OCT-1998; 98US-0106500P.
PR 30-OCT-1998; 98US-0106546P.
PR 30-OCT-1998; 98US-0106556P.
PR 03-NOV-1998; 98US-0106902P.
PR 03-NOV-1998; 98US-0106905P.
PR 03-NOV-1998; 98US-0106919P.
PR 03-NOV-1998; 98US-0106932P.
PR 03-NOV-1998; 98US-0106934P.
PR 10-NOV-1998; 98US-0107783P.
PR 10-NOV-1998; 98US-0108775P.
PR 17-NOV-1998; 98US-0108779P.
PR 17-NOV-1998; 98US-0108787P.
PR 17-NOV-1998; 98US-0108788P.
PR 17-NOV-1998; 98US-0108801P.
PR 17-NOV-1998; 98US-0108802P.
PR 17-NOV-1998; 98US-0108806P.
PR 17-NOV-1998; 98US-0108807P.
PR 17-NOV-1998; 98US-0108867P.
PR 17-NOV-1998; 98US-0108925P.
PR 18-NOV-1998; 98US-0108848P.
PR 18-NOV-1998; 98US-0108849P.
PR 18-NOV-1998; 98US-0108850P.
PR 18-NOV-1998; 98US-0108851P.
PR 18-NOV-1998; 98US-0108852P.
PR 18-NOV-1998; 98US-0108858P.
PR 18-NOV-1998; 98US-0108904P.
PR 22-DEC-1998; 98US-00218517.
PR 22-DEC-1998; 98US-0112396P.
PR 30-DEC-1998; 98US-011423P.
PR 30-DEC-1998; 98US-011423P.
PR 05-JAN-1999; 99US-00284291.
PR 12-APR-1999; 99US-00284291.
PR 16-APR-1999; 99US-0129674P.
PR 23-JUN-1999; 99US-0141037P.
PR 20-JUL-1999; 99US-0144758P.
PR 26-JUL-1999; 99US-0145698P.
PR 01-SEP-1999; 99US-05020111.
PR 15-SEP-1999; 99US-05021194.
PR 18-OCT-1999; 99US-00403297.
PR 30-NOV-1999; 99US-05028551.
PR 02-DEC-1999; 99US-05028551.
PR 16-DEC-1999; 99US-05030095.
PR 05-JAN-2000; 2000US-0000215.
PR 06-JAN-2000; 2000US-0000376.
PR 11-FEB-2000; 2000US-0000365.
PR 18-FEB-2000; 2000US-00004342.
PR 24-FEB-2000; 2000US-00005004.
PR 02-MAR-2000; 2000US-00005841.
PR 15-MAR-2000; 2000US-00006884.
PR 17-MAY-2000; 2000US-0001705.
PR 22-MAY-2000; 2000US-00014042.
PR 30-MAY-2000; 2000US-00014941.
PR 02-JUN-2000; 2000US-00015264.
PR 23-AUG-2000; 2000US-00023522.
PR 24-AUG-2000; 2000US-00023328.
PR 08-NOV-2000; 2000US-00030952.
PR 10-NOV-2000; 2000US-00030873.
PR 01-DEC-2000; 2000US-00032878.
PR 28-FEB-2001; 2001US-00006520.

Db 241 GGACTGGGCGCGGGTAGCTCTGAAAGGCGCGGAGAGAGGTGGCGTTGGTCAGAAC 300
QY 301 CTGAGAAACACCCGAGAGGTTTCCACCGAGGCCCGCGCTTGAGGATCTGAAGAGTTG 360
Db 301 CTGAGAAACACCCGAGAGGTTTCCACCGAGGCCCGCGCTTGAGGATCTGAAGAGTTG 360
QY 361 CTAGAAGAGGAGTGTCCCTCTTTCGGGGGCTCTCACGAGAGAGTCTTGGGGGTGCC 420
Db 361 CTAGAAGAGGAGTGTCCCTCTTTCGGGGGCTCTCACGAGAGAGTCTTGGGGGTGCC 420
QY 421 CTTCTGAGAGGCTGCGGCTAACAGGGCCAGAACTGCATTGATGTCCAGATCCCT 480
Db 421 CTTCTGAGAGGCTGCGGCTAACAGGGCCAGAACTGCATTGATGTCCAGATCCCT 480
QY 481 GTAGTGAATATGTTGGGAAATAGCTGCAACTTTCTTGGCATTCAGTTGTAAAC 540
Db 481 GTAGTGAATATGTTGGGAAATAGCTGCAACTTTCTTGGCATTCAGTTGTAAAC 540
QY 541 AAATAGATGCAAAATTCCTCAACTCCAGTTATGAAAACAGTACTTGGAAAAC 600
Db 541 AAATAGATGCAAAATTCCTCAACTCCAGTTATGAAAACAGTACTTGGAAAAC 600
QY 601 TACCTAAATGATGCTTTGGTGGGCGGTGTTCTTACCGAGCAGAAAGCTTGGCCAGG 660
Db 601 TACCTAAATGATGCTTTGGTGGGCGGTGTTCTTACCGAGCAGAAAGCTTGGCCAGG 660
QY 661 TCTGTGTTGACTCTGAGAGCACAATAGCCACTTCTTAGGGACTGAGGTCGCGTAC 720
Db 661 TCTGTGTTGACTCTGAGAGCACAATAGCCACTTCTTAGGGACTGAGGTCGCGTAC 720
QY 721 TACCATGGGTAATCTGTATCTGCGGAGATGACAGTGGAAACAGATGACATGTGAC 780
Db 721 TACCATGGGTAATCTGTATCTGCGGAGATGACAGTGGAAACAGATGACATGTGAC 780
QY 781 CCAACAGCAACAGGCGGAGAACAGTGCAGTACCACTGCTGACACAGAGCCAAACAG 840
Db 781 CCAACAGCAACAGGCGGAGAACAGTGCAGTACCACTGCTGACACAGAGCCAAACAG 840
QY 841 GGACCTGTTGGCCACCAAGAGGGGCGAGACCTCATATAGCCAAAGAGAAACA 900
Db 841 GGACCTGTTGGCCACCAAGAGGGGCGAGACCTCATATAGCCAAAGAGAAACA 900
QY 901 AAATGTGATGGGCTAGTGTGACACACTGGCACTAATACGACTCTGTGATTAAGTA 960
Db 901 AAATGTGATGGGCTAGTGTGACACACTGGCACTAATACGACTCTGTGATTAAGTA 960
QY 961 AGTATCTGACTCAGGTCACCTCCAGTGAATGAAAAGTGTTCGCCGAAACCATGACT 1020
Db 961 AGTATCTGACTCAGGTCACCTCCAGTGAATGAAAAGTGTTCGCCGAAACCATGACT 1020
QY 1021 TTAGGACTCCTTCACTTCTTTAGACATACTCCGCAAGCCTTGTGCTCACAGGGCAAG 1080
Db 1021 TTAGGACTCCTTCACTTCTTTAGACATACTCCGCAAGCCTTGTGCTCACAGGGCAAG 1080
QY 1081 GAGAAATATTTAATGCTCCGCTGATGCGAGTAATATGATTAAGATTGATTTTGTCTT 1140
Db 1081 GAGAAATATTTAATGCTCCGCTGATGCGAGTAATATGATTAAGATTGATTTTGTCTT 1140
QY 1141 GCTGTCACTACTTGTCTGAAATGTCTAAATGTTTCTGTAGCAAGAAAACAGATTAAG 1200
Db 1141 GCTGTCACTACTTGTGTCTGAAATGTCTAAATGTTTCTGTAGCAAGAAAACAGATTAAG 1200
QY 1201 CTATGATCTTATTAGAG 1218
Db 1201 CTATGATCTTATTAGAG 1218

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 4, 2004, 04:53:16 ; Search time 4802 Seconds
(without alignments)

10993.714 Million cell updates/sec

Title: US-10-066-500-8

Sequence: 1218
1 cccacgcgcgcgcgcgcgtg.....agctatgaccttattagag 1218

Scoring table: IDENTITY NUC
Gapop 10.0 , Gapext 1.0

Searched: 3470272 seqs, 21671516995 residues

Total number of hits satisfying chosen parameters: 6940544

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Maximum Match 100%
Listing first 45 summaries

Database :

GenEmbl:*

1: gb_da:*

2: gb_hcg:*

3: gb_in:*

4: gb_om:*

5: gb_ov:*

6: gb_pat:*

7: gb_ph:*

8: gb_pl:*

9: gb_pr:*

10: gb_ro:*

11: gb_sgs:*

12: gb_sy:*

13: gb_vl:*

14: gb_vl:*

15: em_da:*

16: em_fun:*

17: em_hum:*

18: em_in:*

19: em_mu:*

20: em_om:*

21: em_or:*

22: em_ov:*

23: em_pat:*

24: em_ph:*

25: em_pl:*

26: em_ro:*

27: em_sgs:*

28: em_un:*

29: em_vl:*

30: em_hcg_hum:*

31: em_hcg_inv:*

32: em_hcg_other:*

33: em_hcg_mus:*

34: em_hcg_pln:*

35: em_hcg_rod:*

36: em_hcg_mam:*

37: em_hcg_vrt:*

38: em_sy:*

39: em_hcgo_hum:*

40: em_hcgo_mus:*

41: em_hcgo_other:*

Pred. No. is the number of results predicted by chance to have a

score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	1218	100.0	1218	6	AX403653 Sequence
2	1218	100.0	1218	6	AX454420 Sequence
3	1218	100.0	1218	6	AX490898 Sequence
4	1218	100.0	1218	6	AX696937 Sequence
5	1218	100.0	1218	6	AX358548 Sequence
6	768	63.1	198253	9	AC009090 Homo sapi
7	668.8	54.9	3586	6	AX879845 Sequence
8	668.8	54.9	3586	6	BD158056 Primer fo
9	668.8	54.9	3586	9	AX027549 Homo sapi
10	628.4	51.6	2453	9	AB072745 Macaca fa
11	606	49.8	3359	10	BC054121 Mus muscu
12	506.8	41.6	3473	9	AB075852 Homo sapi
13	505.8	41.5	21897	2	AC118500 Rattus no
14	505.4	41.5	2084	9	BC013173 Homo sapi
15	505.4	41.5	2133	6	BD249821 33 human
16	497.4	40.8	188704	10	AC123826 Mus muscu
17	497.4	40.8	214920	2	AC140182 Mus muscu
18	483.2	39.7	725	6	BD019446 Novel gen
19	483.2	39.7	725	6	BD099384 Novel gen
20	479	39.3	1937	6	BD249849 33 human
21	479	39.3	1937	6	BD131002 67 human
22	479	39.3	1937	6	BD249848 33 human
23	426.2	35.0	618	6	AX867818 Sequence
24	426.2	35.0	618	6	BD147880 Primer fo
25	399.2	32.8	2056	10	BC010833 Mus muscu
26	318.8	26.2	462	6	AR415624 Sequence
27	318.8	26.2	462	6	BD111177 EST and e
28	240.8	19.8	201758	2	AC102358 Mus muscu
29	118.6	9.7	119	6	AX905110 Sequence
30	118.6	9.7	119	6	BD040643 Sequence
31	90.8	7.5	70420	5	BX470074 Zebrafish
32	53.2	4.4	260153	2	AC104414 Mus muscu
33	53.2	4.4	260153	2	AX655393 Sequence
34	52.2	4.3	82815	2	AC062001 Homo sapi
35	50.4	4.1	93718	2	OS1600031 Oryza sat
36	50	4.1	89944	9	AC093127 Oryza sat
37	49.8	4.1	68330	2	AC116109 Mus muscu
38	49.6	4.1	139505	2	AC118506 Human DNA
39	49.6	4.1	240965	2	AC126054 Mus muscu
40	49.4	4.1	1203	6	AR164806 Sequence
41	49.4	4.1	101509	2	BD106780 Human c-M
42	49.4	4.1	101509	2	AC027353 Homo sapi
43	49.4	4.1	165921	9	AC009159 Homo sapi
44	49	4.0	101901	8	AP003377 Oryza sat
45	49	4.0	140036	2	AC133005 Oryza sat

ALIGNMENTS

RESULT 1
LOCUS AX403653 1218 bp DNA linear PAT 14-JUN-2002
DEFINITION Sequence 8 from Patent WO0077037.
ACCESSION AX403653
VERSION AX403653.1 GI:214377113
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS
Aashkenazi, A., Baker, K., Botstein, D., Desnovers, L., Eaton, D.L.,
Feirata, N., Fong, S., Gao, W.Q., Geirer, H., Geirer, M.B.,
Goddard, A., Godowski, P., Gurney, A., Kijavini, I.U., Mather, J.,

TITLE
 Napiier,M., Pan,J., Pooni,N., Roy,M., Tunas,D., Watanabe,C.,
 Williams,P.M., Wood,W.I. and Zhang,Z.
 secreted and transmembrane polypeptides and nucleic acids encoding
 the same
 Patent: WO 0077037-A 8 21-DEC-2000;
 Genentech Inc. (US)
 JOURNAL
 FEATURES
 source
 Location/Qualifiers
 1..1218
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match:	100.0%;	Score 1218;	DB 6;	Length 1218;
Best Local Similarity	100.0%;	Pred. No. 1.3e-289;		
Matches 1218; Conservative	0;	Mismatches	0;	Indels 0;
		Gaps	0;	

OY	1	CCACACGCTCCGGCCGCGCGCTGAGCTCAGCGATCACTTTGGCTTCTCTCGACCTGTGCACA	60
Db	1	CCACACGCTCCGGCCGCGCGCTGAGCTCAGCGATCACTTTGGCTTCTCTCGACCTGTGCACA	60
OY	61	AAGAGTCCGCGCGCGCGCGCGCCCTCCCTCCGCTGGGCGCCGGAGGTAAAGAAAT	120
Db	61	AAGAGTCCGCGCGCGCGCGCGCCCTCCCTCCGCTGGGCGCCGGAGGTAAAGAAAT	120
OY	121	CAGTGGCACAAGCCCCGACCGCGCTGCTGAGCGCCCGGGACACGGGAAACGGGAGAGAGTCT	180
Db	121	CAGTGGCACAAGCCCCGACCGCGCTGCTGAGCGCCCGGGACACGGGAAACGGGAGAGTCT	180
OY	181	GAGGGTGGGAGAGTGTGTGAGGAGAGGGGAAACAGCCGCTCGAGCTCGGGCGGGCGGAC	240
Db	181	GAGGGTGGGAGAGTGTGTGAGGAGAGGGGAAACAGCCGCTCGAGCTCGGGCGGGCGGAC	240
OY	241	GGACTGGGGCCGGGGATAGGCTCTGGAAAGAGGCCCGGGAGAGAGTGGCTTGGTCAAAAC	300
Db	241	GGACTGGGGCCGGGGATAGGCTCTGGAAAGAGGCCCGGGAGAGAGTGGCTTGGTCAAAAC	300
OY	301	CTGAGAAACAGCCGAGAGGTTTTCCACCGAGGCCCGGCGCTTGAGGATCTGAAGAGGTTTC	360
Db	301	CTGAGAAACAGCCGAGAGGTTTTCCACCGAGGCCCGGCGCTTGAGGATCTGAAGAGGTTTC	360
OY	361	CTAAGAAAGGGGTGTTCCCTCTTTCGGGAGTCTCTCACAGAAAGAGTTCTTGGGGGTGCGC	420
Db	361	CTAAGAAAGGGGTGTTCCCTCTTTCGGGAGTCTCTCACAGAAAGAGTTCTTGGGGGTGCGC	420
OY	421	CTTGTGAGAGGCTCGGCGCTAACAGGGGCCCAAGATGTCATTTGATGTCCAGAAATCCCT	480
Db	421	CTTGTGAGAGGCTCGGCGCTAACAGGGGCCCAAGATGTCATTTGATGTCCAGAAATCCCT	480
OY	481	GTAGTTATATGTTGGGAAATAAGCTCTCAACTTCTTTGGCAATTCAGTGTGTTAAAAAC	540
Db	481	GTAGTTATATGTTGGGAAATAAGCTCTCAACTTCTTTGGCAATTCAGTGTGTTAAAAAC	540
OY	541	AAATAGATCAAAATTCCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAACCTGAAAAC	600
Db	541	AAATAGATCAAAATTCCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAACCTGAAAAC	600
OY	601	TACCTAATATATGTCCTTGGTGGGCGGTCTTTCAGAGACAGAAAGCCTGGGCCAGGG	660
Db	601	TACCTAATATATGTCCTTGGTGGGCGGTCTTTCAGAGACAGAAAGCCTTGGGCCAGGG	660
OY	661	TCTGTTGTGACTCTCGAAGAGCACATAGCCACTTCTTAGGCACTGGAGGTGCGGTAC	720
Db	661	TCTGTTGTGACTCTCGAAGAGCACATAGCCACTTCTTAGGCACTGGAGGTGCGGTAC	720
OY	721	TACCATGGGTATTTCTGTATCTGCGGAGATGACAGTGGAACAGATGACAATGTGTGCAC	780
Db	721	TACCATGGGTATTTCTGTATCTGCGGAGATGACAGTGGAACAGATGACAATGTGTGCAC	780
OY	781	CCAAACAGAACAGGCCGAGAAACAGTGAAGTACCATGCTGACACAAAGAACCAACACAG	840
Db	781	CCAAACAGAACAGGCCGAGAAACAGTGAAGTACCATGCTGACACAAAGAACCAACACAG	840

QY	841	GGACCCGTTGCGGCACCAAGAGAGGGGGCGAGAGCCTCATGAGGCAGAGAGAAAGAAACA	900
Db	841	GGACCCGTTGCGGCACCAAGAGAGGGGGCGAGAGCCTCATGAGGCAGAGAGAAAGAAACA	900
QY	901	AAATGGATGGCGCTAGTGTGGACACACTGGCAGTAAACGGACTCTTGTAGATAAGTA	960
Db	901	AAATGGATGGCGCTAGTGTGGACACACTGGCAGTAAACGGACTCTTGTAGATAAGTA	960
QY	961	AGATCTGACTCAAGGTACCTCCAGTGGAAATGAAAAGTGTCTGCGCCGGAAACATAGCT	1020
Db	961	AGATCTGACTCAAGGTACCTCCAGTGGAAATGAAAAGTGTCTGCGCCGGAAACATAGCT	1020
QY	1021	TTAGAGCCCTTGAGTCCCTTTAGACATCACTCGCCAGCGCTGTGCTCCACAGGSCAAAG	1080
Db	1021	TTAGAGCTCCTCACTTCCCTTTAGACATCACTCGCCAGCGCTGTGCTCCACAGGSCAAAG	1080
QY	1081	GAGAAATATTTTAAATGCTCCGCGTGAATGSCAAGTAAATGATAGATTGATGTTTGGCTT	1140
Db	1081	GAGAAATATTTTAAATGCTCCGCGTGAATGSCAAGTAAATGATAGATTGATGTTTGGCTT	1140
QY	1141	GCTGTCACTTCACTTTGCTGTGAAAATGTCTAAATGTTTCTGTAGAGAGAAAACAGATAAG	1200
Db	1141	GCTGTCACTCACTTTGCTGTGAAAATGTCTAAATGTTTCTGTAGAGAGAAAACAGATAAG	1200
QY	1201	CTATGATCTTATTAGAG 1218	
Db	1201	CTATGATCTTATTAGAG 1218	

RESULT 2					
AX454420					
LOCUS					
DEFINITION	AX454420	1218 bp	DNA	linear	PAT 06-JUL-2002
	Sequence 5 from Patent WO2008284.				

ORGANISM	SOURCE
Homo sapiens	(human)
Homo sapiens	

REFERENCE
AUTHORS

1 Baker, K. P., Ferrara, N., Garber, H., Gerritsen, M. E., Goddard, A., Godowski, P. J., Gurney, A. L., Hillan, K. J., Masters, S. A., Pan, Y., Panti, N. F., Stephan, C. P., Watanabe, C. K., Williams, P. M., Wood, W. I., and Ye, W., 1999. *Phylogeny and treatment of*

TITLE Compositions and methods for the diagnosis and treatment of disorders involving angioedema
JOURNAL Patent: WO 0208284-A 5 31-PAN-2002; Genentech, Inc. (US) ; Baker, Kevin P. (US) ; Ferrara, Napoleone (US) ; Garber, Hanspeter (US) ; Gerritsen, Mary E. (US) ; Goddard, Andrew (US) ; Godowski, Paul J. (US) ; Gurney, Austin L. (US) ; Hillan, Kenneth J. (US) ; Martens, Scott A. (US) ; Pan, James (US) ; Paoni, Nicholas F. (US) ; Stephan, Jean-Philippe F. (US) ; Watanabe, Colin K. (US) ; Williams, P. Mickey (US) ; Wood, William I. (US)

```

FEATURES
    source      location/Qualifiers
                1. 1218
                /organism="Homo sapiens"
                /mol_type="unassigned DNA"
                /db_xref="taxon:9606"
ORIGIN

```

	Query Match	Similarity	100.0%	Score 1218	DB 6	Length 1218
	Best Local	Similarity	100.0%	Pred. No. 1,35-289		
	Matches 1218	Conservative	0	Mismatches 0	Indels 0	Gaps 0
QY	1	CCCAAGCGTCGGGCGCGTCGCGCTCCATCTTTGCGCTTCCTCGGACCTGTCA	60			
DB	1	CCCAAGCGTCGGGCGCGCTCGCTCCATCTTTGCGCTTCCTCGGACCTGTCA	60			
QY	61	AAGGAGTCGCGCGCGCGCGCGCGCGCTCCCTCGGTGGGCGCGGAGTAGGAAGT	120			
DB	61	AAGGAGTCGCGCGCGCGCGCGCGCGCGCTCCCTCGGTGGGCGCGGAGTAGGAAGT	120			

QY	121	AAATGCAACAGCCCGACCGCGCTGCTCTAGAGCCCTGGGACACGCGAAACGGGAGCGAGTCT	180
Db	121	CAATGCCACAGCCCGACCGCGCTGCTCTAGAGCCCTGGGACACGCGGAAACGGGAGCGAGTCT	180
QY	181	GAGGGTTGGGAGCGTCTGTGAGGGAGGGGAAACAGCCGCTGAGCTTGGGGCGGCGGAC	240
Db	181	GAGGGTTGGGAGCGTCTGTGAGGGAGGGGAAACAGCCGCTGAGCTTGGGGCGGCGGAC	240
QY	241	GGAATGGGCGCGGGGTAGCGCTCTGGAAAGAGGCCCGGAGAGAGGTGGCTTGGTTCAGAAC	300
Db	241	GGAATGGGCGCGGGGTAGCGCTCTGGAAAGAGGCCCGGAGAGAGGTGGCTTGGTTCAGAAC	300
QY	301	CTGGAAGAACAGCCGAGAGGTTTTTCCACCAGAGCCCGGCTTGAAGGATCTGAAAGAGTTCC	360
Db	301	CTGGAAGAACAGCCGAGAGGTTTTTCCACCAGAGCCCGGCTTGAAGGAGTCTGAAAGAGTTCC	360
QY	361	CTAGAAAGAGGGTGTTCCTCTTTGGGGGATCTCACCAGAGAGGTCTTTGGGGGTGCC	420
Db	361	CTAGAAAGAGGGTGTTCCTCTTTGGGGGATCTCACCAGAGAGGTCTTTGGGGGTGCC	420
QY	421	CTTCTTGAGAGAGGTGCGGCTAACAGGGCCCAAGACTGCCATTTGGATGTCAGAAATCCCCCT	480
Db	421	CTTCTTGAGAGAGGTGCGGCTAACAGGGCCCAAGACTGCCATTTGGATGTCAGAAATCCCCCT	480
QY	481	GTACTGTGATATGTTTGGGAATPACCTCTGCACACTTTCTTTGGCATTTGATGTTTAAAAAC	540
Db	481	GTACTGTGATATGTTTGGGAATPACCTCTGCACACTTTCTTTGGCATTTGATGTTTAAAAAC	540
QY	541	AAATAGAGATGCAATTCTCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAACCTGAAAAC	600
Db	541	AAATAGAGATGCAATTCTCTCAACTCCAGGTTATGAAAACAGTACTTGGAAAACCTGAAAAC	600
QY	601	TACCTAAATGATCGTCTTTGGTTGGGCGGTTGCTTTGACGAGCAAGACCTTGGCCACGG	660
Db	601	TACCTAAATGATCGTCTTTGGTTGGGCGGTTGCTTTGACGAGCAAGACCTTGGCCACGG	660
QY	661	TCGTGTTGTAAGCTCTCGAAGACACATPAGCCACTTCTTAGGAGCTGAGAGTGGCGGTAC	720
Db	661	TCGTGTTGTTAGCTCTCGAAGACACATPAGCCACTTCTTAGGAGCTGAGAGTGGCGGTAC	720
QY	721	TACCATGGGTAATTCCTGTATCTCGCCGAGATGACAGTGGAAACAATGACAGTGTGACAC	780
Db	721	TACCATGGGTAATTCCTGTATCTCGCCGAGATGACAGTGGAAACAATGACAGTGTGACAC	780
QY	781	CCAAACAGCAACAGGCCAGAAACAGTGCAGTACCCACTGCTTCAACAAAGAGGCCAACACG	840
Db	781	CCAAACAGCAACAGGCCAGAAACAGTGCAGTACCCACTGCTTCAACAAAGAGGCCAACACG	840
QY	841	GGACCCCTGTTGCGGCAACCAAGAGGGGCGAGGACCTTCATGAGCCCAAGAGAAAGAAACA	900
Db	841	GGACCCCTGTTGCGGCAACCAAGAGGGGCGAGGACCTTCATGAGCCCAAGAGAAAGAAACA	900
QY	901	AAATGTGATGGGCTGATGTTTGGACACATCGCGCAAGCCCTGTCACACAGGCAAGT	960
Db	901	AAATGTGATGGGCTGATGTTTGGACACATCGCGCAAGCCCTGTCACACAGGCAAGT	960
QY	961	AGTATCTGACTCACCGTCACTCCAGTGGAAAGAAAGTGTTCGCGCGGAACCATGACT	1020
Db	961	AGTATCTGACTCACCGTCACTCCAGTGGAAAGAAAGTGTTCGCGCGGAACCATGACT	1020
QY	1021	TTAGGACCTCTCACTTCTTGAAGACATPACCTCGCAAGCCCTGTCACACAGGCAAG	1080
Db	1021	TTAGGACCTCTCACTTCTTGAAGACATPACCTCGCAAGCCCTGTCACACAGGCAAG	1080
QY	1081	GAGAAATATTTAATCTCCGCTGATGCAAGATTAATGATTAAGATTTGATGTTTGGCTT	1140
Db	1081	GAGAAATATTTAATCTCCGCTGATGCAAGATTAATGATTAAGATTTGATGTTTGGCTT	1140
QY	1141	GCTGATCATTAATTTGTGTGCGAAATGTCTAAATGTTTCTGTGACGAGAAACACGATTAAG	1200
Db	1141	GCTGATCATTAATTTGTGTGCGAAATGTCTAAATGTTTCTGTGACGAGAAACACGATTAAG	1200

Db	1201	CTATGATCTTTATATAGAG	1218	
Db	1201	CTATGATCTTTATATAGAG	1218	
RESULT 3				
LOCUS	AX490898			
DEFINITION	Sequence 5 from Patent WO0200690.			
ACCESSION	AX490898			
VERSION	AX490898.1	GI:22323786		
KEYWORDS				
SOURCE				
ORGANISM	Homo sapiens (human)			
REFERENCE	Homo sapiens			
AUTHORS	Enkharvota; Metazora; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.			
TITLE	Baker, K.P., Ferrara, N., Garber, H., Gerritsen, M.E., Goddard, A., Godowski, P.J., Gurney, A.L., Hillan, K.J., Masters, S.A., Pan, J., Pao, N.F., Stephan, J.P., Watanabe, C.K., Williams, P.M., Wood, W.I. and Ye, W.			
JOURNAL	Disorders involving angiogenesis Patent: WO 0200690-A 5 03-JAN-2002; Genentech, Inc. (US)			
FEATURES	Location/Qualifiers			
source	1..1218			
ORIGIN	/organism="Homo sapiens"			
	/mol_type="unassigned DNA"			
	/db_xref="taxon:9606"			
Query Match	100.0%; Score 1218; DB 6; Length 1218;			
Best Local Similarity	100.0%; Prid. No. 1.3e-289;			
Matches 1218; Conservative	0; Mismatches 0; Indels 0; Gaps 0			
QY	1	CCCAACGCGCTCCGCGCGCGTGGCGCTCGCATCTTTGACCGCTTCTCGACCTGTACA	60	
Db	1	CCCAACGCGCTCCGCGCGCGTGGCGCTCGCATCTTTGACCGCTTCTCGACCTGTACA	60	
QY	61	AAGAGTGCAGCGCGCGCGCGCGCTCCCTCCCTCGGTGGCGCCGGAGAGTGAAGAACT	120	
Db	61	AAGAGTGCAGCGCGCGCGCGCGCTCCCTCCCTCGGTGGCGCCGGAGAGTGAAGAACT	120	
QY	61	AAGAGTGCAGCGCGCGCGCGCGCTCCCTCCCTCGGTGGCGCCGGAGAGTGAAGAACT	120	
Db	61	AAGAGTGCAGCGCGCGCGCGCGCTCCCTCCCTCGGTGGCGCCGGAGAGTGAAGAACT	120	
QY	121	CAGTCCACAGCGCGCGCGCGCGCTGTCTGAGCGCTGGGACAGCGGAGAGAGTCT	180	
Db	121	CAGTCCACAGCGCGCGCGCGCGCTGTCTGAGCGCTGGGACAGCGGAGAGAGTCT	180	
QY	181	GAGGCTTGGGAGCGTCTGTGAGAGAGGAGGAGAGCGCTCGAGCTGGGCGCGCGAGC	240	
Db	181	GAGGCTTGGGAGCGTCTGTGAGAGAGGAGGAGAGCGCTCGAGCTGGGCGCGCGAGC	240	
QY	241	GGAGCTGGGCGCGCGGTTAGGCTCTGAGAAAGGCGCGGAGAGAGTGGCTGTGAGAAC	300	
Db	241	GGAGCTGGGCGCGCGGTTAGGCTCTGAGAAAGGCGCGGAGAGAGTGGCTGTGAGAAC	300	
QY	241	GGAGCTGGGCGCGCGGTTAGGCTCTGAGAAAGGCGCGGAGAGAGTGGCTGTGAGAAC	300	
Db	241	GGAGCTGGGCGCGCGGTTAGGCTCTGAGAAAGGCGCGGAGAGAGTGGCTGTGAGAAC	300	
QY	301	CTGAGAAACAGCGGAGAGGTTTCCACCGAGCGCGCGCTTGAAGGATCTGAAGAGTTC	360	
Db	301	CTGAGAAACAGCGGAGAGGTTTCCACCGAGCGCGCGCTTGAAGGATCTGAAGAGTTC	360	
QY	301	CTGAGAAACAGCGGAGAGGTTTCCACCGAGCGCGCGCTTGAAGGATCTGAAGAGTTC	360	
Db	301	CTGAGAAACAGCGGAGAGGTTTCCACCGAGCGCGCGCTTGAAGGATCTGAAGAGTTC	360	
QY	361	CTGAGAGAGGAGTTCCTCTTCCGAGGCTCTCAAGAAAGAGTCTTGGGGGCGCGC	420	
Db	361	CTGAGAGAGGAGTTCCTCTTCCGAGGCTCTCAAGAAAGAGTCTTGGGGGCGCGC	420	
QY	421	CTTCTGAGAGGCTCGCGCTTAAACAGGCGCCAGAACTGCTGATGATGTCAGAAATCCCT	480	
Db	421	CTTCTGAGAGGCTCGCGCTTAAACAGGCGCCAGAACTGCTGATGATGTCAGAAATCCCT	480	
QY	481	GTAGTGTATATGTTGGGAGATAGCTGCACTTTCTTGGCATTCAGTTGTAAAAAC	540	
Db	481	GTAGTGTATATGTTGGGAGATAGCTGCACTTTCTTGGCATTCAGTTGTAAAAAC	540	
QY	541	AAATGAGATGCAATTCCTCAACTCAGGTTATGAAAAACAGTACTGAAAACTGAAAAAC	600	

```

Db      541  AAATGATGCAAAATTCCTCAACTCCAGTTATGAAAAACATGACTTGAAAAACGAAAAAC
Qy      601  TACCTTAATGATCGCTTTGGTGGCCGCTGTTCTTACGAGACAGAAACCTTGGCCAGGG
Db      601  TACCTTAATGATCGCTTTGGTGGCCGCTGTTCTTACGAGACAGAAACCTTGGCCAGGG
Qy      661  TCTGTTGTTGACTCTCGAAGACATAGACCCTTCTAGGAGCTGAGAGTGGCCGCTAC
Db      661  TCTGTTGTTGACTCTCGAAGACATAGACCCTTCTAGGAGCTGAGAGTGGCCGCTAC
Qy      721  TACCATGGGTAAATTCCTGATATGCGGAGATGACAGTGGAAACAGATGACAGTGGTGAAC
Db      721  TACCATGGGTAAATTCCTGATATGCGGAGATGACAGTGGAAACAGATGACAGTGGTGAAC
Qy      781  CCAACAGCAACAGGCGGAGAACAGTGCAGTACCCCTGCTGACCAAGAGCCCAACACAG
Db      781  CCAACAGCAACAGGCGGAGAACAGTGCAGTACCCCTGCTGACCAAGAGCCCAACACAG
Qy      841  GGAACCTGTTGGCCCAACCAAGAGGCGGAGAGCTTCATGAGCCCAAGAGAGAAACA
Db      841  GGAACCTGTTGGCCCAACCAAGAGGCGGAGAGCTTCATGAGCCCAAGAGAGAAACA
Qy      901  AAATGATGATGGGCTAGTGTGGACACACTGAGAGTAATAGCGACTCTTGTAGATTAAGTA
Db      901  AAATGATGATGGGCTAGTGTGGACACACTGAGAGTAATAGCGACTCTTGTAGATTAAGTA
Qy      961  AGATATCTGACCTGACCGGTCACTCCAGTGGAAATGAAAGTGTCTGCCGGAACCATGACT
Db      961  AGATATCTGACCTGACCGGTCACTCCAGTGGAAATGAAAGTGTCTGCCGGAACCATGACT
Qy      1021  TTAGACATCTTCAATTCCTTTAAGACATCTCCGCAAGCTTGTGCTCAAGGGCAAG
Db      1021  TTAGACATCTTCAATTCCTTTAAGACATCTCCGCAAGCTTGTGCTCAAGGGCAAG
Qy      1081  GAGAAATATTTATGCTCCGCTGATGAGAGTAATGATTAAGATTGATTTTGTCTT
Db      1081  GAGAAATATTTATGCTCCGCTGATGAGAGTAATGATTAAGATTGATTTTGTCTT
Qy      1141  GCTGTCATCTACTTTGCTCTGAAATGCTAAATGTTTCTGAGCAAGAAAACAGATAAG
Db      1141  GCTGTCATCTACTTTGCTCTGAAATGCTAAATGTTTCTGAGCAAGAAAACAGATAAG
Qy      1201  CTATGATCTTATTAGAG 1218
Db      1201  CTATGATCTTATTAGAG 1218

```

RESULT 4
 AX696937 1218 bp DNA linear PAT 02-APR-2003
 LOCUS Sequence 5 from Patent WO0078961.
 DEFINITION AX696937
 ACCESSION AX696937
 VERSION AX696937.1 GI:29497951
 KEYWORDS
 SOURCE
 ORGANISM
 Homo sapiens (human)
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
 AUTHORS
 1 Ferrarini, N., Stewart, T.A., Williams, P.M., Baker, K.P., Denoyers, L.,
 Eaton, D.L., Gao, W.Q., Fan, J., Borstein, D., Fors, S., Goddard, A.,
 Godwin, P.J., Gurney, A.L., Smith, V., Tumas, D., Wood, W.L.,
 Grimaldi, C.J., Hillan, K.J., Poon, N.F., Roy, M.A. and Watanabe, C.K.
 Secreted and transmembrane polypeptides and nucleic acids encoding
 the same
 JOURNAL Patent: WO 0078961-A 5 28-DEC-2000;
 Genentech Inc. (US)

FEATURES
 source
 1..1218
 Location/Qualifiers
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

ORIGIN

Query Match 100.0%; Score 1218; DB 6; Length 1218;
 Best Local Similarity 100.0%; Pred. No. 1,3e-289;
 Matches 1218; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

Qy      1  CCCACGCGTCCGCGCGCGCTGAGCTCGCTCACTTTTGGCCGTTCTCTCGACCTGTCACA 60
Db      1  CCCACGCGTCCGCGCGCGCTGAGCTCGCTCACTTTTGGCCGTTCTCTCGACCTGTCACA 60
Qy      61  AAGAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Db      61  AAGAGTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 120
Qy      121  CAGTGCACAGCCCGACCGCGCTGAGCTGAGCTTGGAGACCGGAAACGAGAGAGTCT 180
Db      121  CAGTGCACAGCCCGACCGCGCTGAGCTGAGCTTGGAGACCGGAAACGAGAGAGTCT 180
Qy      181  GAGGTTGGGAGCTTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Db      181  GAGGTTGGGAGCTTGTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 240
Qy      241  GAGCTGGGCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Db      241  GAGCTGGGCGCGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 300
Qy      301  CTGAGAAACAGCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Db      301  CTGAGAAACAGCCGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 360
Qy      361  CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Db      361  CTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 420
Qy      421  CTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Db      421  CTCTGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 480
Qy      481  GTAGTGAATAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
Db      481  GTAGTGAATAGTGGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAGAG 540
Qy      541  AAATAGATGCAAAATTCCTCAACTCCAGTTATGAAAAACAGTACTTGGAAAACTGAAAAC 600
Db      541  AAATAGATGCAAAATTCCTCAACTCCAGTTATGAAAAACAGTACTTGGAAAACTGAAAAC 600
Qy      601  TACCTTAATGATCGCTTTGAGTGGCCGCTGTTCTTACGAGACAGAGAGAGAGAGAGAG 660
Db      601  TACCTTAATGATCGCTTTGAGTGGCCGCTGTTCTTACGAGACAGAGAGAGAGAGAGAG 660
Qy      661  TCTGTTGTTGACTCTCGAAGACATAGACCCTTCTAGGAGCTGAGAGTGGCCGCTAC 720
Db      661  TCTGTTGTTGACTCTCGAAGACATAGACCCTTCTAGGAGCTGAGAGTGGCCGCTAC 720
Qy      721  TACCATGGGTAAATTCCTGATATGCGGAGATGACAGTGGAAACAGATGACAGTGGTGAAC 780
Db      721  TACCATGGGTAAATTCCTGATATGCGGAGATGACAGTGGAAACAGATGACAGTGGTGAAC 780
Qy      781  CCAACAGCAACAGGCGGAGAACAGTGCAGTACCCCTGCTGACCAAGAGCCCAACACAG 840
Db      781  CCAACAGCAACAGGCGGAGAACAGTGCAGTACCCCTGCTGACCAAGAGCCCAACACAG 840
Qy      841  GGAACCTGTTGGCCCAACCAAGAGGCGGAGAGCTTCATGAGCCCAAGAGAGAAACA 900
Db      841  GGAACCTGTTGGCCCAACCAAGAGGCGGAGAGCTTCATGAGCCCAAGAGAGAAACA 900
Qy      901  AAATGATGATGGGCTAGTGTGGACACACTGAGAGTAATAGCGACTCTTGTAGATTAAGTA 960
Db      901  AAATGATGATGGGCTAGTGTGGACACACTGAGAGTAATAGCGACTCTTGTAGATTAAGTA 960
Qy      961  AGATATCTGACCTGACCGGTCACTCCAGTGGAAATGAAAGTGTCTGCCGGAACCATGACT 1020
Db      961  AGATATCTGACCTGACCGGTCACTCCAGTGGAAATGAAAGTGTCTGCCGGAACCATGACT 1020

```

Qy	1021	TTAGACATCCCTCAAGTTCCTTTAGGACATACCGCAAGCCCTTGCTCACAAGGCCAAAG	1080
Db	1021	TTAGACATCCCTCAAGTTCCTTTAGGACATACCTCGCAAGCCCTTGCTCACAAGGCCAAAG	1080
Qy	1081	GAGAAATATTTTAAATGCTCCGCTGATGACAGAGTAATGATTAAGAATTGATGTTTGGCT	1140
Db	1081	GAGAAATATTTTAAATGCTCCGCTGATGACAGAGTAATGATTAAGAATTGATGTTTGGCT	1140
Qy	1141	GCTGTCATCTACTTTGCTCGGAAATGCTTAATGTTTCTGTAGCAGAAAAACACGATAAAG	1200
Db	1141	GCTGTCATCTACTTTGCTCGGAAATGCTTAATGTTTCTGTAGCAGAAAAACACGATAAAG	1200
Qy	1201	CTATGATCTTTATTAGAG	1218
Db	1201	CTATGATCTTTATTAGAG	1218

RESULT	5				
LOCUS	AY358548	1218 bp	mRNA	linear	PRI 03-OCT-2003
DEFINITION	AY358548	Homo sapiens clone DNA2684c	YFGS28 (UNQ326)	mRNA,	complete cds.
ACCESSION	AY358548				
VERSION	AY358548.1	GI:37182218			
KEYWORDS	FLI-CDNA,				
SOURCE	Homo sapiens	(human)			
ORGANISM	Homo sapiens				

REFERENCE
AUTHORS

REFERENCE

AUTHORS

Eukaryota; Metazoa; Chordata; Craniata; Vertebrates; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 1218)

Clark,K.F., Gurney,A.L., Abaya,E., Baker,K., Baldwin,D., Brush,J., Chen,J., Chow,B., Chui,C., Crowley,C., Currell,B., Deuel,B., Dowd,P., Eaton,D., Foster,J., Grimaldi,C., Gu,Q., Haas,P.E., Heldens,S., Huang,A., Kim,H.S., Klimowski,L., Jin,Y., Johnson,S., Lee,J., Lewis,L., Liao,D., Mark,M., Robbie,E., Sanchez,C., Schoenfeld,J., Seshagiri,S., Simmons,L., Singh,J., Smith,V., Stinson,J., Vagstad,A., Vandlen,R., Warneke,C., Wiand,D., Woods,K., Xié,M.H., Yamasaki,D., Yi,S., Yu,G., Yuan,J., Zhang,M., Zhang,Z., Goddard,A., Wood,W.I. and Godowski,P.

THE

The Secreted Protein Discovery Initiative (SPDI), a Large-Scale Effort to Identify Novel Human Secreted and Transmembrane Proteins: A Bioinformatic Assessment

JOURNAL

Genome Res. 13 (10), 2265-2270 (2003)

JOURNAL Genome Res. 13 (10), 2265-2270 (2003)
 PUBMED 12975309
 REFERENCES 2 (bases 1 to 1218)
 AUTHORS Clark H. P.
 TITLE Direct Submission
 JOURNAL Submitted (01-AUG-2003) Department of Bioinformatics, Genentech
 Inc., 1 DNA Way, South San Francisco, CA 94080, USA
 FEATURES Location/Qualifiers
 source 1..1218

```

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="DNA26846"

1..1218
/locus_tag="UNQ328"
608..961
gene
CDS

```

```

/locus_tag="UNQ328"
/notes="PRO44"
/codon_start=1
/product="IYFG328"
/protein_id="AAO88912.1"
/db_xref="GI:37182219"
/translation="MIVGMAVFLASRSLSGGLLTLTEHNLHPIGTGAATTKNS
ICRDSGTDSDVDTQQQAENSAPVTAIDRSQFDPVAPRRGRGSPHEPRRKQVND
IQLDLAVIRTLVDK"

```

ORIGIN				
Query Match	100.0%	Score 1218	DB 9	Length 1218
Best Local Similarity	100.0%	Pred. NO. 1.3e+289		
Matches 118;	Conservative	0	Mismatches	0
			Indels	0
			Gaps	0

[illegible]

Db	LOCUS	AC009090/c	RESULT 6
Db	LOCUS	AC009090/c	198253 bp DNA linear PRI 19-MAR-2003
Db	DEFINITION	Homo sapiens chromosome 16 clone RP11-407G23, complete sequence.	
Db	VERSION	AC009090.12	GI:29124043
Db	KEYWORDS	HTG.	
Db	SOURCE	Homo sapiens (human)	
Db	ORGANISM	Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.	
Db	REFERENCE	1 (bases 1 to 198253)	DOE Joint Genome Institute, Stanford Human Genome Center and Los Alamos National Laboratory.
Db	AUTHORS	Direct Submission	
Db	TITLE	2 (bases 1 to 198253)	DOE Joint Genome Institute.
Db	JOURNAL	Direct Submission	
Db	REFERENCE	Submitted (03-AUG-1999)	Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
Db	AUTHORS	3 (bases 1 to 198253)	DOE Joint Genome Institute.
Db	TITLE	Direct Submission	
Db	JOURNAL	Submitted (04-APR-2002)	Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
Db	REFERENCE	4 (bases 1 to 198253)	DOE Joint Genome Institute.
Db	AUTHORS	Direct Submission	
Db	TITLE	Submitted (17-DEC-2002)	Production Sequencing Facility, DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
Db	JOURNAL	5 (bases 1 to 198253)	DOE Joint Genome Institute, Stanford Human Genome Center and Los Alamos National Laboratory.
Db	REFERENCE	Direct Submission	
Db	AUTHORS	Submitted (19-MAR-2003)	DOE Joint Genome Institute, 2800 Mitchell Drive, Walnut Creek, CA 94598, USA
Db	TITLE	On Mar 19, 2003 this sequence version replaced gi:27151360.	
Db	JOURNAL	Draft Sequence Produced by DOE Joint Genome Institute	
Db	COMMENT	www.jgi.doe.gov	
Db	FEATURES	Finishing Completed at Stanford Human Genome Center and Los Alamos National Laboratory	
Db	source	www.shgc.stanford.edu	
Db	ORIGIN	Quality: Phrap Quality >=40 100% of Sequence; Estimated Total Number of Errors is 0	
Db	NOTE	NOTE: BACTERIAL TRANSPOSON excised at 62920.	
Db	location/Qualifiers	1..198253	
Db		/organism="Homo sapiens"	
Db		/mol_type="genomic DNA"	
Db		/db_xref="taxon:9606"	
Db		/chromosome="16"	
Db		/clone="RP11-407G23"	
Db	Query Match	63.1%; Score 768; DB 9; Length 198253;	
Db	Best Local Similarity	100.0%; Pred.No.2e-178;	
Db	Matches	768; Conservative 0; Mismatches 0; Indels 0; Gaps 0	
Db	451	AGAACTGCCATTGGAGTGCAGAAATCCCTGATGTTGATTAAGTGGGAATAAGCTCTGC	510

Db	59076	AGAACTGCCATTGGATGTCAGAAATCCCTGTAGTTGTAATAGTTGGGAATAGCTCTCG	5901.7
Qy	511	AACCTTCTTTGGGCACTCACTGATTGTTAAATAAATAAGAGTGCAAATTCCTCAACTCCAGGT	570
Db	59016	AACCTTCTTTGGGCACTCACTGATTGTTAAATAAATAAGAGTGCAAATTCCTCAACTCCAGGT	5895
Qy	571	TATGAAAAACGATCTTGGAATACTGAAAACTACCTAAATGATCGTCTTTGGTGGGCGGT	630
Db	58956	TATGAAAAACGATCTTGGAATACTGAAAACTACCTAAATGATCGTCTTTGGTGGGCGGT	5889
Qy	631	GTTCTTAGCCAGCAGAAAGCCTTGGCCAGGGTCTGTTGTTGACTCTTGAAAGACATATAG	650
Db	58966	GTTCTTAGCCAGCAGAAAGCCTTGGCCAGGGTCTGTTGTTGACTCTTGAAAGACATATAG	5883
Qy	691	CCACTTCCTTAGGGACCTGGAGGTCCGCTCTACCATGAGGTAATTCCTGATCTGCCGAGA	750
Db	58936	CCACTTCCTTAGGGACCTGGAGGTCCGCTCTACCATGAGGTAATTCCTGATCTGCCGAGA	5877
Qy	751	TGACAGTGGAAACAGATGACAGTGTGACACCCAAACAGCAACAGGCCGAGAACAGTGCAGT	810
Db	58776	TGACAGTGGAAACAGATGACAGTGTGACACCCAAACAGCAACAGGCCGAGAACAGTGCAGT	5871
Qy	811	ACCCACCTGCTGACACAAAGAGGCCAACCAACGAGACCCCTGTTGGGCAACAAAGAGGGGCG	870
Db	58716	ACCCACCTGCTGACACAAAGAGGCCAACCAACGAGACCCCTGTTGGGCAACAAAGAGGGGCG	5865
Qy	871	AGGACCTCATGAGCCAAAGAGAAAGAAACAAAATGTGTGATGGGCTAGTGTGACACACT	930
Db	58656	AGGACCTCATGAGCCAAAGAGAAAGAAACAAAATGTGTGATGGGCTAGTGTGACACACT	5859
Qy	931	GGCAGTAAATACGACACTTTTGTATAGTAAGTAAGTATGACTCAACGGACCTCCAGTGA	990
Db	58596	GGCAGTAAATACGACACTTTTGTATAGTAAGTAAGTATGACTCAACGGACCTCCAGTGA	5853
Qy	991	ATGAAAAGTGTTCGCCCCGAGAACCATGACTTTAGAGCTCCCTTCAGTTCCTTAGACATA	1050
Db	58536	ATGAAAAGTGTTCGCCCCGAGAACCATGACTTTAGAGCTCCCTTCAGTTCCTTAGACATA	5847
Qy	1051	CTGCCCAAGCCTTGTGCTCACAGGGCAAGAGAAATTTTAAATGCTCCGCTAGTGGCAG	1110
Db	58476	CTGCCCAAGCCTTGTGCTCACAGGGCAAGAGAAATTTTAAATGCTCCGCTAGTGGCAG	5841
Qy	1111	AGTAATGATPAGATTGATGTTTGGTCTGCTGCTCATCTACTTGTCTGAAATGTCATA	1170
Db	58416	AGTAATGATPAGATTGATGTTTGGTCTGCTGCTCATCTACTTGTCTGAAATGTCATA	5835
Qy	1171	AATGTTTCTGTAGCAGAAAAACACGATTAAGCTATGATCTTTATTATGAG	1218
Db	58356	AATGTTTCTGTAGCAGAAAAACACGATTAAGCTATGATCTTTATTATGAG	58309
RESULT 7			
AX879845		3586 bp	Linear
LOCUS	AX879845	14750	from Patent EP1074617.
DEFINITION	AX879845		
ACCESSION	AX879845		
VERSION	AX879845.1		GI:40034581
KEYWORDS			
SOURCE			
ORGANISM			Homo sapiens (human)
REFERENCE			
AUTHORS			Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
TITLE			Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
JOURNAL			Ota,T., Isogai,T., Nishikawa,T., Hayashi,K., Saito,K., Yamamoto,T.,
FEATURES			Ishii,S., Sugiyama,T., Wakamatsu,A., Nagai,K. and Otsuki,T.
Source			Primers for synthesising full-length cDNA and their use
			Patent: EP 1074617-A 14750 07-FEB-2001;
			Research Association for Biotechnology (JP)
			Location/Qualifiers
			1..3586
			/organism="Homo sapiens"
			/mol_type="unassigned DNA"
			/db_xref="taxon:9606"


```

Db      72  GCCGCCGCCGCCGCCCTCCCTCCGCTGAGGCCCGGAGAGTAGAGAAAGTCAGTGCCACA 131
Qy      131  GCCCGACCGCGCTGCTCTGAGCCCTTGAGCAGCGGAGACCGGAGAGAGTCTGAGGGTGGG 190
Db      132  GCCCGACCGCGCTGCTCTGAGCCCTTGAGCAGCGGAGACCGGAGAGAGTCTGAGGGTGGG 191
Qy      191  GACGTCGTGAGAGGAGGAGACAGCCGCTGAGCCCTGAGGCGGCGGAGACCGGACTGAGGCG 250
Db      192  GACGTCGTGAGAGGAGGAGACAGCCGCTGAGCCCTGAGGCGGCGGAGACCGGACTGAGGCG 251
Qy      251  CGGCGTGAAGCTCTGAGAAAGGCGCGGAGAGAGAGTGGCTTGGTCAGAACCTTGAGAAACA 310
Db      252  CGGCGTGAAGCTCTGAGAAAGGCGCGGAGAGAGAGTGGCTTGGTCAGAACCTTGAGAAACA 311
Qy      311  GCCGAGAGGTTTTCCACCGGAGCGCGCTTGAGGAGTCTGAAAGAGTTCTTGAAGAGG 370
Db      312  GCCGAGAGGTTTTCCACCGGAGCGCGCTTGAGGAGTCTGAAAGAGTTCTTGAAGAGG 371
Qy      371  GAGTCCCTCTTTCGAGGAGTCTTACCAAGAGGTTCTTGGGGGTGCGCCCTTCTGAGGA 430
Db      372  GAGTCCCTCTTTCGAGGAGTCTTACCAAGAGGTTCTTGGGGGTGCGCCCTTCTGAGGA 431
Qy      431  GAGTCCCTCTTTCGAGGAGTCTTACCAAGAGGTTCTTGGGGGTGCGCCCTTCTGAGGA 451
Db      432  GAGTCCCTCTTTCGAGGAGTCTTACCAAGAGGTTCTTGGGGGTGCGCCCTTCTGAGGA 491
Qy      452  ----- 451
Db      492  TACCGATGAGTCTGAGCTACTCAGGGGTCGCCGGATGAGAAAGGTAGTAGAGGAGAC 551
Qy      452  ----- 451
Db      552  GCTTTAGAGAGGTTCTTTTGTGAGTTTACGCTAGGTGAGCAGGATGAGGACATCT 611
Qy      452  ----- 451
Db      612  CCCCAGAGATTTAGAAAGCCTTGAGATAGAAAGATGGGGCTAGAGAGAGAGAC 671
Qy      452  ----- 451
Db      672  TAGAAGTACGAGATGCTCTACTACGAGAGCCGAGAGTGAATTTGAAATGCAATGGA 731
Qy      466  TGTCCAGATCCCTGTAGTTGATTAATGTTGGGATTAAGCTCTGCAACTTTCTTTGGCAT 525
Db      732  TGTCCAGATCCCTGTAGTTGATTAATGTTGGGATTAAGCTCTGCAACTTTCTTTGGCAT 791
Qy      526  TCAAGTTTAAAAAACAATAGATGCAAAATCTCTCAATCTCAGGTTATGAAAAAGTACT 585
Db      792  TCAAGTTTAAAAAACAATAGATGCAAAATCTCTCAATCTCAGGTTATGAAAAAGTACT 851
Qy      586  TGAAGAACTGAAAACTACCTTAATGATCGTCTTGGTGGGCGGTCTTCTTACGAGCAG 645
Db      852  TGAAGAACTGAAAACTACCTTAATGATCGTCTTGGTGGGCGGTCTTCTTACGAGCAG 911
Qy      646  AAGCCTTGGCAAGGCTGTGTTGACTCTGAGAGACATAGCCCACTTCTTGAAGGAG 705
Db      912  AAGCCTTGGCAAGGCTGTGTTGACTCTGAGAGACATAGCCCACTTCTTGAAGGAG 971
Qy      706  TGAAGGTCGGCTACTACCTAGTGGTAATCTCTGATATGCGGAGATGACAGTGGAGACA 765
Db      972  TGAAGGTCGGCTACTACCTAGTGGTAATCTCTGATATGCGGAGATGACAGTGGAGACA 1031
Qy      766  TGAAGTGTGACACCCAGACGACAGAGCGCGAGAACAGTGCAGTACCACTGCTGACAC 825
Db      1032  TGAAGTGTGACACCCAGACGACAGAGCGCGAGAACAGTGCAGTACCACTGCTGACAC 1091
Qy      826  AAGAGCCCAACAGGAGACCTGTTCGGCCACCAAGAGGGGCGCGAGAGACTATAGACC 885
Db      1092  AAGAGCCCAACAGGAGACCTGTTCGGCCACCAAGAGGGGCGCGAGAGACTATAGACC 1151
Qy      886  AAGAGAAAGAAACAAAATGTGATGAGCTAGTGTGAGACACATGGCAGTAAATACGAGC 945
Db      1152  AAGAGAAAGAAACAAAATGTGATGAGCTAGTGTGAGACACATGGCAGTAAATACGAGC 1211

```

Qy 946 TCTGTAGATPA 957
Db 1212 TCTGTAGATPA 1223

RESULT 10
AB072745
LOCUS
DEFINITION
AB072745 2453 bp mRNA linear PRI 22-FEB-2003
Macaca fascicularis testis cDNA clone:Qtsa-15931, full insert
sequence.
AB072745
AB072745.1 GI:16041093
oligo capping; fls (full insert sequence).
Macaca fascicularis (crab-eating macaque)
SOURCE
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Cercopithecoidea;
Cercopithecinae; Macaca.

REFERENCE
AUTHORS
Osada, N., Hida, M., Kusuda, J., Tanuma, R., Hirata, M., Suto, Y.,
Hirai, M., Terao, K., Sugano, S. and Hashimoto, K.
Cynomolgus monkey testicular cDNAs for discovery of novel human
genes in the human genome sequence
BMC Genomics 3 (1), 36 (2002)
12498619
2 (bases 1 to 2453)
Hashimoto, K., Osada, N., Hida, M., Kusuda, J. and Sugano, S.
Direct Submission
Submitted (09-OCT-2001) Katsuyuki Hashimoto, National Institute of
Infectious Diseases, Division of Genetic Resources; 23-1, Toyama
1-chome, Shinjuku-ku, Tokyo 162-8640, Japan
(E-mail: khashi@nih.go.jp, URL: http://www.nih.go.jp/yoker/genebank/
Tel: 81-3-5285-1111 (ex. 2120), Fax: 81-3-5285-1181)

COMMENT

Lab host: TOP10
Vector: pMB18-F13 (Acc.No. AB009864)
R. Site1: DraIII (CACTGTGTG)
R. Site2: DraIII (CACCATGTG)
Description: 1st strand cDNA was primed with an oligo (dt) primer
[ATGTGACCTTTTCTTTTCTTTT]; double-stranded cDNA was synthesized
using specific 5' and 3' primers and amplified by PCR. The PCR
product was digested with SfiI and size selection was performed to
exclude fragments <1.5kb. The SfiI-digested PCR product was cloned
into distinct DraIII sites of pMB18-F13. XhoI sites just outside
the DraIII sites can be used to isolate the cDNA insert. Libraries
were constructed by oligo-capping method
(Sugano et al., University of Tokyo, Institute of Medical Science).
Custom primer used for sequencing
(5' end primer [CTTGTCTCTTAAAGTGGC];
3' end primer [CGACCTGACGCTCGAGCAC]).
Location/Qualifiers
1..2453
/organism="Macaca fascicularis"
/mol_type="mRNA"
/db_xref="taxon:9541"
/clone="Qtsa-15931"
/sex="male"
/tissue_type="testis"
/clone_lib="macaque testis cDNA library Qtsa"
/dev_stage="adult"

FEATURES
source

CDS

546..2276
/codon_start=1
/product="hypothetical protein"
/protein_id="BAB69714.1"
/db_xref="GI:16041094"
/translation="MIVGAAVFLASRLGGLLTLEBHIAHFLGRTGATTTWNSC
ICRDSGDSVDVTOOQAGNSAVPTADTRQPDVPRPGRGPRPRKQNVG
LVLDIATVIRLNDDEPPYSMTLHEMATDGGMLDVQSLRVLPLEDPGPAVY
TLLDDEPLPTKDLQKTRITLNLNGEVAACDSDGPKHRTSAVLGLKLAGPAS
IGLSPGLELLLOCLKQSHPTVWLPALILKRPQTSBKLTISSSISLDELVTLE
SWANPDYLRQVFCQMSLDNLFLKGRQUTYEKVLIRMLANSNDVSELYKIS
PHGLEARDASSFESVRCFTCDAGVWYEVTVTVTSVGMQGVATRUSKPLNHEGYI
GDPEVSCAYDGCROLIWNARSKPHIHPCWKEGDTVGLPLDLNKKOMIFLNGQLDP


```

/db_xref="taxon:10090"
/clone="MGC:59548 IMAGE:6339310"
/tissue_type="Embryo, day 9 mouse (C57BL/6 background)
ococytes"
/clone_1ib="NIH MGC_130"
/lab_host="DH10B"
/notes="vector: pCMV-SPORT6.1"
1..3359
/gene="4930470D19LX"
/db_xref="locusid:67610"
/db_xref="MGI:1914860"
629..2359
/product="RIKEN cDNA 4930470D19"
/codon_start=1
/protein_id="AAH54121.1"
/db_xref="GI:3248416"
/db_xref="LOCUSID:67610"
/translacion="MIVGMAVFLASRLGGGLLLLEHIALHLLGTGATATWNSC
ICRDSGAEVDVTHQOQAEIVTADSRSPDRPVRPRGRGHEPRKQNDG
LVLDLAVIRLVNDQBPYSMITLHMAETDEGMADVQSLRVLPDIPGPAVI
TLLEDEPLPTKDALOKLEILNNGEVAACDSGHPAKHNTSAVIGLAELKAGAS
IGLASPGILEVLOCLKLOSHPTMLFALLALEKADTSNKLITSSISIDSLVLE
LMADPPIKQVGRCAQMSLDNFIKGRQLTYEKDINNIRAMNSNVSYLIS
PHLEPARCDASFEVTRCTFVDVGTWTEVTVTSVWQIGMTRDSKFLNKGIGI
GDERSCAIDGCRQLWYNARKHVPKMSGDTVGLDLNEKQMIFFLNQOLP
EKQVFSSTVSGFFAASFMYSQCEFNFGAPFPYRPSMFTENDYAFLLAEKXIL
PRHRLALIKQVSIKRENCSCDCDEVADTLKPCGSHSLCMDCALQLETCPKREXIV
SRIRIASHIS"
1700..2074
/notes="SPRY. Region: SPRY domain. SPRY Domain is named
from Sp1 and the Rianoline Receptor. Domain of unknown
function. Distant homologue are domains in
butyrophilin/marenostrin/pyrin homologues"
/db_xref="CCD:pfam0622"

misc_feature
1700..2074
/notes="SPRY. Region: SPRY domain. SPRY Domain is named
from Sp1 and the Rianoline Receptor. Domain of unknown
function. Distant homologue are domains in
butyrophilin/marenostrin/pyrin homologues"
/db_xref="CCD:pfam0622"

Query Match 49.8% Score 606; DB 10; Length 3359;
Best Local Similarity 80.5%; Pred. No. 1,5e-118;
Matches 766; Conservative 0; Mismatches 165; Indels 21; Gaps 4;

ORIGIN
11 CGAGCGCGTGCCTGCTGCCTGCATCTTTGACCGTCTCTCGACCTGTCAAAAGAGTGC 70
43 CAGTCCCGTGTCCCGCGCTCCATCTTTACCGCTCTTTGACCTGTCAAAAGAGTGC 102
71 GCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 130
103 GCGCGTGTGCTGTCTCCCTCTCTCCGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 162
131 GCGCGACCGCGCTGTGAG-----CCCTGGGACCGCGGACCGGAGGAGTCTGAGG 185
163 GCGCGACCGCGCTGTGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 222
186 TTGGGAGAGCGTGTGAGGAGGAGGAGGAGCGCGCGCGCGCGCGCGCGCGCGCGG 245
223 CTAGGAGAGCGCTGTGAGGAGGAGGAGGAGCGCGCGCGCGCGCGCGCGCGCGG 282
246 GCGCGCGCGGAGTGCCTCTGGAAGAGGCGCGGAGAGAGTGTGCTGAGAACTGAG 305
283 GCGCGCGCGGCGCTGTGCGGAGGAGGAGGAGTGTGAGAGGAGTGTGAGAGCGTGG 342
306 AAACAGCGAGAGGTTTCCACCGAGCGCGCGCGCGCGCGCGCGCGCGCGCGCGG 365
343 AAGCAGCGCGGACACTCTCTCCAGGCGCGCGCGCGCGCGCGCGCGCGCGCGCG 402
366 AAGAGGTGTCTCTTTTCCGGGGGCTCTACACAGAGAGGTTCTTGGGGGCGCTCTT 425
403 AAGAGGTGTCTCTCTTTAGGAGGAGTGTGAGGAGGAGGCTCT--GGGGTCAACCTCC 460
426 GAGGAGGCTGCGGCTAACAGGAGCGCGAGAGTGTGAGTGTGAGTGTGAGTGTGAGT 485
461 GAGGAGACT-----GGCTAAGAGCTGCGAGGAGTGTGAGGAGGAGTGTGAGTGT 509
486 TATATATGTGGAAATAGCTCTGCAACTTTCTTTGCGCATTCAGTTGTAAAAAATA 545

```

```

Db 510 TGATTAATTTGGAATAGAGCTGTGACCTTCTCCAGCATTCAGTTGTTAAATGAAATA 569
Qy 546 GGATGCAATTCCTCAACTCCAGGTTATGAAAACAGTACTTGAAAACCTGAAACCT 605
Db 570 GAATGCAAGT---TCAGTCCACATTTAGAAAACAGTACTGGAATAATTGAAAACATCT 626
Qy 606 AATGATGCTTTTGTGTTGGGCGCTGTCTTTAGGAGAGAGAGCGCTTGGCAGAGTCTGT 665
Db 627 AGATGATTTGTTTGTGTTGGGCGCTGTGTGTTCTTAGCAACAGAGCGCTTGGCAGAGTCTGT 686
Qy 666 TGTGACTCTGAGAGAGACATATACCCACTCTCTAGGAGCTGAGAGTGTGCGCTACTACA 725
Db 687 TGCTGACTCTGAGAGAGACATATACCCACTCTCTAGGAGCTGAGAGTGTGCGCTACTACA 746
Qy 726 TGGGTAATTCCTGTATCTGCGGAGATGACAGTGAACAGTGAACAGTGTGAACCCAC 785
Db 747 TGGGTAATTCCTGTATCTGCGGAGATGACAGTGAACAGTGAACAGTGTGAACCCAC 806
Qy 786 AGCAACAGGCGGAGAGACAGTGAACAGTGAACCCACTCTGTCACAGAGGAGCAACAGGAGCC 845
Db 807 AGCAACAGGCGGAGAGACAGTGAACAGTGAACCCACTCTGTCATAGAGAGCAACAGGAGCC 866
Qy 846 CTGTTCCGCGCACCAAGAGGCGCGGAGAGCTCTATGAGCCAGAGAGAGAGAGAGAGAG 905
Db 867 CTGTCGCGCGCTCCAGAGAGAGGCGGAGAGAGCTCTATGAGCCAGAGAGAGAGAGAGAG 926
Qy 906 TGGATGAGCTAGTGTGACACACTGCGAGTAAATACGACTCTTGTAGATAA 957
Db 927 TGGATGAGCTAGTGTGACACACTGCGAGTAAATACGACTCTTGTAGATAA 978

RESULT 12
AB075852 3473 bp mRNA linear PRI 26-FEB-2002
LOCUS AB075852
DEFINITION Homo sapiens mRNA for KIAA1972 protein.
ACCESSION AB075852
VERSION AB075852.1 GI:18916844
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE
1 Nagase,T., Kikuno,R. and Ohara,O.
Prediction of the coding sequences of unidentified human genes.
XIII. The complete sequences of 50 new cDNA clones which code for
large proteins
DNA Res. 8 (6), 319-327 (2001)
JOURNAL MEDLINE 21842142
PUBMED 11853319
2 (bases 1 to 3473)
REFERENCE Ohara,O., Nagase,T. and Kikuno,R.
Direct Submission
JOURNAL Submitted (06-DEC-2001) Osamu Ohara, Kazusa DNA Research Institute,
Department of Human Gene Research, 1532-3, Yana, Kisarazu, Chiba
292-0812, Japan (E-mail:cdnainfo@kazusa.or.jp,
URL:http://www.kazusa.or.jp/huge, Tel:81-438-52-3913,
Fax:81-438-52-3914)
FEATURES
source
1..3473
location/Qualifiers
1..3473
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="EK09334"
/tissue_type="brain"
/notes="vector:pbiscriptII SK plus"
1..3473
/gene="KIAA1972"
<244..1974
/gene="KIAA1972"
/notes="start codon is not identified."
/codon_start=1

```

/evidence=not_experimental
 /product="K1A1972 protein"
 /protein_id="BAB8558.1"
 /db_xref="GI:18916845"
 /translation="MIVGVMAVFLASRLSGGLLTLEBEHIAFLITGTAATMGNSC
 ICRDSDSDVDVQOQOQENSAPVADTRSDPDRPRRGGEPERKONQD
 LIDLTAVIRLUNDNDDEPPSMSTLHEMATDEGMLDVOSIRVLEPLDGPVY
 TLLIDDEPLPTKDAOKRTLEINNGEVACDSHPAKHNTSNVAGCLAKKAPAS
 IGLSPGILEYLGQKQSHPTWMLRLALEKFAOTSERKATISSSSISDLYLTS
 SWANDPYLKRQVQCAQMSLDNLFKEGRQITVEKNLSIRAMLSNDVSEYLTIS
 PHGEARCDASFSVRCTCFVDAGWYEVTVTSVMQIGMARTSKPLNEGGGI
 GDDEYSCAYDCROLIWYNARSKPHICMKEGPDVGLDLINKEQWIFLITNQP
 EKOVSTVSGFAPASPMYSQCEFNKGAFKPPSMKSTENDYAFITAEKIL
 PHRLRLKOVSIRENCCSLCDEVDATQCKPGHSDLCMDCLQETEPLOKREIV
 SRIQIHSIS"

ORIGIN
 Query Match 41.6% Score 506.8; DB 9; Length 3473;
 Best Local Similarity 99.6%; Pred. No. 4.6e-114;
 Matches 508; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

448 CCCAGACTGCATGATGATGCCAATCCCTGATGATTAATGTTGGGAATACCTC 507
 84 CTCGACACTGCATGATGATGCCAATCCCTGATGATTAATGTTGGGAATACCTC 143
 508 TGCACATTTCTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCA 567
 144 TGCACATTTCTTGGCATTCAGTTGTTAAAAACAATAGATGCAAAATTCCTCACTCA 203
 568 GGTATGAAAACAGTACTTGGAAAACCTGAATGATTCCTTCTTGGTGGGC 627
 204 GGTATGAAAACAGTACTTGGAAAACCTGAATGATTCCTTCTTGGTGGGC 263
 628 CGTGTCTTAGGAGACAGAGAGCTTGGCAGAGGCTGTGTTGTACTCGAAGACACAT 687
 264 CGTGTCTTAGGAGACAGAGAGCTTGGCAGAGGCTGTGTTGTACTCGAAGACACAT 323
 688 AGCCCACTTCTAGGAGAGAGAGCTTGGCAGAGGCTGTGTTGTACTCGAAGACACAT 747
 324 AGCCCACTTCTAGGAGAGAGAGCTTGGCAGAGGCTGTGTTGTACTCGAAGACACAT 383
 748 AGATGACGTGAGACAGATGACAGTGTGACACCCACAGCAACGCGCGAGAACAGTGC 807
 384 AGATGACGTGAGACAGATGACAGTGTGACACCCACAGCAACGCGCGAGAACAGTGC 443
 808 AGTACCACTGCTGACACAGAGAGCAACAGAGGAGCCCTGTTGCGCCACCAAGAGGCG 867
 444 AGTACCACTGCTGACACAGAGAGCAACAGAGGAGCCCTGTTGCGCCACCAAGAGGCG 503
 868 CCGAGAGACTCTAGAGCCAGAGAAACAATAATGATGAGGCGTAAAGTGGAGAC 927
 504 CCGAGAGACTCTAGAGCCAGAGAAACAATAATGATGAGGCGTAAAGTGGAGAC 563
 928 ACTGCGAGTAATACGAGACTCTTGTAGATTA 957
 564 ACTGCGAGTAATACGAGACTCTTGTAGATTA 593

RESULT 13
 AC118500/c 211897 bp DNA linear HTG 19-NOV-2002
 LOCUS AC118500
 DEFINITION Rattus norvegicus clone CH230-144P21, WORKING DRAFT SEQUENCE, 6
 unnumbered pieces.
 AC118500
 AC118500.4 GI:25073691
 HTG: HTGS_PHASE1; HTGS_DRAFT; HTGS_FULLTOP.
 KEYWORDS Rattus norvegicus
 SOURCE Rattus norvegicus
 ORGANISM Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Rodentia; Sciurognathi; Muridae; Murinae;
 Rattus.
 Rattus.
 1 (bases 1 to 211897)
 REFERENCE
 Muzny, D., Marie, M., Metzger, M., Lee, A., Abramson, S., Adams, C., Alder, J.,

TITLE
 JOURNAL
 REFERENCE
 AUTHORS
 TITLE
 JOURNAL

REFERENCE
 AUTHORS
 TITLE
 JOURNAL

COMMENT

Allen, C., Allen, H., Albrooks, S., Amin, A., Arguiano, D.,
 Anyalebech, V., Ayagi, A., Ayodeji, M., Baca, E., Baden, H.,
 Baldwin, D., Bandaranaike, D., Barber, M., Barnstead, M., Bernhead, F.,
 Bismato, K., Blair, J., Blankenburg, K., Blyth, P., Brown, M.,
 Bryant, N., Bunay, C., Burch, P., Burrell, K., Calderon, E.,
 Cardenas, V., Carter, K., Cavazos, I., Ceasar, H., Chen, A.,
 Chacko, J., Chavez, D., Chen, G., Chen, R., Chen, Y., Chen, Z., Chu, J.,
 Cleveland, C., Cockrell, R., Cox, C., Coyle, M., Cree, A., D'Souza, F.,
 Davila, M. L., Davis, C., Davy-Carroll, L., De Andrade, C., Dederich, D.,
 Delgado, O., Denson, S., Deramo, C., Ding, Y., Dinh, B., Divya, K.,
 Drepper, H., Dugan-Rocha, S., Dunn, A., Durbin, K., Duval, B., Eaves, K.,
 Egan, A., Escotto, M., Eugene, C., Evans, C. A., Falls, T., Fan, G.,
 Fernandez, S., Finley, M., Flagg, N., Forbes, L., Foster, M., Foster, P.,
 Fraser, C. M., Gabisi, A., Ganta, R., Garcia, A., Garner, T., Garza, M.,
 Gebregiorgis, E., Geer, K., Gill, R., Grady, M., Guerra, W., Guevara, W.,
 Gunaratne, P., Haaland, W., Hamil, C., Hamilton, C., Hamilton, K.,
 Harvey, Y., Havlik, P., Hawes, A., Henderson, N., Hernandez, J.,
 Hernandez, R., Hines, S., Hladun, S. L., Hodgson, A., Hughes, M.,
 Hollins, B., Howells, S., Hulys, S., Hume, T., Idledit, D., Jackson, A.,
 Jackson, L., Jacob, L., Jiang, H., Johnson, B., Johnson, R., Jolivet, A.,
 Karpathy, S., Kelly, S., Kelly, S., Khan, Z., King, L., Kovar, C.,
 Kowis, C., Kraft, C. L., Lebow, H., Levan, J., Lewis, L., Li, Z., Liu, J.,
 Liu, J., Liu, W., Liu, Y., London, P., Longacre, S., Lopez, J.,
 Lorenz, L., Louised, H., Lozdo, R. J., Lu, X., Ma, J.,
 Maneshwari, M., Mahindaratne, M., Mahmoud, M., Malloy, K., Mangum, A.,
 Mangum, B., Mapa, P., Martin, K., Martin, R., Martinez, E.,
 Mawhney, S., McLeod, M. P., McNeill, T. Z., Meenen, E.,
 Milosavljevic, A., Miner, G., Minja, E., Montemayor, J., Moore, S.,
 Morgan, M., Morris, K., Morris, S., Mundana, M., Murphy, M., Nat, L.,
 Nankervis, C., Neal, D., Newton, N., Nguyen, N., Norris, S.,
 Nwackeleneh, O., Okunonu, G., Olarinmakin, A., Pal, S., Parks, K.,
 Pasternak, S., Paul, H., Perez, A., Perez, L., Pfannkuch, C.,
 Piopier, F., Poindexter, A., Popovic, D., Primus, E., Pu, L., L.,
 Puzo, M., Quiroz, J., Rachlin, E., Reeves, K., Regier, M. A., Reigh, R.,
 Reilly, B., Reilly, M., Ren, Y., Reuter, M., Richards, S., Riggs, F.,
 Rivers, C., Rodkey, T., Rojas, A., Rose, M., Rose, R., Ruliz, S. J.,
 Sanders, W., Savary, G., Scherer, S., Scott, G., Shatman, S., Shen, H.,
 Shetty, J., Shvartbeyn, A., Sison, I., Sitter, C. D., Smajs, D.,
 Sneed, A., Sodergren, E., Song, X.-Z., Sorrell, R., Sosa, J.,
 Steinle, M., Strong, R., Sutton, A., Svatek, A., Tabor, P., Taylor, C.,
 Taylor, T., Thomas, N., Thomas, S., Tingey, A., Trejos, Z., Uman, K.,
 Valas, R., Vera, V., Villanueva, D., Waldron, L., Walker, B., Wang, J.,
 Wang, Q., Wang, S., Warren, J., Warren, R., Wei, X., White, F.,
 Williams, G., Willson, R., Wleczek, R., Wooden, H., Worley, K.,
 Wright, D., Wright, R., Wu, J., Yakub, S., Yen, J., Yoon, L., Yoon, V.,
 Yu, F., Zhang, J., Zhou, J., Zhou, X., Zhao, S., Zhou, D., von
 Niederhausen, A., Weiss, R., Smith, D. R., Holt, R. A., Smith, H. O.,
 Weinstein, G., and Gibbs, R. A.
 Direct Submission
 Unpublished
 2 (bases 1 to 211897)
 Morley, K. C.
 Direct Submission
 Submitted (18-APR-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 3 (bases 1 to 211897)
 Rat Genome Sequencing Consortium.
 Direct Submission
 Submitted (19-NOV-2002) Human Genome Sequencing Center, Department
 of Molecular and Human Genetics, Baylor College of Medicine, One
 Baylor Plaza, Houston, TX 77030, USA
 On Nov 19, 2002 this sequence version replaced gi:23269807.
 The sequence in this assembly is a combination of BAC based reads
 and whole genome shotgun sequencing reads assembled using Atlas
 (http://www.hgsc.bcm.tmc.edu/projects/rat/). Each contig described
 in the feature table below represents a scaffold in the Atlas
 assembly (a 'contig-scaffold'). Within each contig-scaffold,
 individual sequence contigs are ordered and oriented, and separated
 by sized gaps filled with Ns to the estimated size. The sequence
 may extend beyond the ends of the clone and there may be sequence
 contigs within a contig-scaffold that consist entirely of whole
 genome shotgun sequence reads. Both end sequences and whole genome

AUTHORS
Strausberg, R.

TITLE Direct Submission
JOURNAL Submitted (27-AUG-2001) National Institutes of Health, Mammalian Gene Collection (MGC), Cancer Genomics Office, National Cancer Institute, 31 Center Drive, Room 11A03, Bethesda, MD 20892-2550, USA

REMARK NIH-MGC Project URL: <http://mgc.nci.nih.gov>
On Sep 16, 2003 this sequence version replaced gi:15341959.
Contact: MGC help desk
Email: gcgaps-remail.nih.gov
Tissue Procurement: Lou Staudt
cDNA Library Preparation: Life Technologies, Inc.
cDNA Library Arrayed by: The I.M.A.G.E. Consortium (LIML)
DNA Sequencing by: Baylor College of Medicine Human Genome Sequencing Center
Center code: BCM-HGSC
Web site: <http://www.hgsc.bcm.tmc.edu/cdna/>
Contact: amg@bcm.tmc.edu
Gunnarsson, P.H., Garcia, A.M., Lu, X., Hulyk, S.W., Louisse, H., Kowis, C.R., Sneed, A.J., Martin, R.G., Muzny, D.M., Nannavati, A.N., Gibbs, R.A.

Clone distribution: MGC clone distribution information can be found through the I.M.A.G.E. Consortium/LIML at: <http://image.llnl.gov>
This clone was selected for full length sequencing because it passed the following selection criteria: Hexamer frequency ORF analysis, Genomescan gene prediction.

FEATURES

source

1..2084
/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/clone="MGC:17340 IMAGE:4340287"
/tissue_type="Lymph, lymphoma"
/clone_lib="NIH_MGC_85"
/lab_host="DH10B"
/note="Vector: pCMV-SPORT6"
1..2084
/gene="KIAA1972"
/db_xref="locusID:89970"
279..2009
/codon_start=1
/product="KIAA1972 protein"
/protein_id="AAH13173.1"
/db_xref="GI:15341960"
/db_xref="locusID:89970"
/translation="MIVFGMAVFLASRLSGGLLTLEBRIAFILNGAATMGNSC
ICRDSGIDSDVDVTOQQAENSAYFLADITSQDPVPRPRKGRGPHPRKQNDG
LVLDLAVIRLVNDQDEPYSMTLHEMAETEGWLDVQSLIRVPLEDPLGPAVI
TLIDCEPLPTKDALQKLTLELNGEAVACDSHPKSHNTSAVIGCLAEKLAGPAS
IGLSPGLELYLQCLQSHPTVLMFLALEKQTSNKLTISSEISDLVLE
SWANDPDKQVQFCQMSLDNLEKGRQLTEKYNLISRAMNSNVSEYKIS
PHGLARCDASFESEVCTPCVDAGVYEVTVTSGVMIGATNRSKRLNEGIGI
GDSEYSCAYDCRRLIYNARSKPHIPCKEKGDTGTFLLDNEKMTFFLNQCP
EKQVSTVSQGFPAASPMCSIQCEENFGAKFPKPSMKFSTFNDIAFLIAEKIL
PRHRLALIKVSIKENCCLCCDEADVDTLQPCGSHDLCDALQLETPLCRKBIT
SRIRQISHIS"
1353..1724
/note="SPRY; Region: Domain in SP1a and the RYandoline
Receptor "
/db_xref="CDD:smart00449"

ORIGIN

Query Match 41.5%; Score 505.4; DB 9; Length 2084;
Best Local Similarity 99.8%; Pred. No. 1e-113;
Matches 506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 451 AGAAGTCGATTCAGTCCAGATCCCTGATGATTAATGTTGGAAATTAAGCTGCG 510
DB 122 AAAATGTCATTCAGTCCAGATCCCTGATGATTAATGTTGGAAATTAAGCTGCG 181
QY 511 AACTTCTTGGCATTCAGTGTGTTAAACAAATAGATGCAATTCCTCACTCCAGGT 570

DB 182 AACTTCTTGGCATTCAGTGTGTTAAACAAATAGATGCAATTCCTCACTCCAGGT 241
QY 571 TATGAAACAGTACTTGGAAAACTGAAACTACCAATATGATCGCTTGTGGGCGGT 630
DB 242 TATGAAACAGTACTTGGAAAACTGAAACTACCAATATGATCGCTTGTGGGCGGT 301
QY 631 GTTCTTGGAGCAGAACCTTGGCAGAGGTCTGTGTGTACTCTGAAAGACATAGC 690
DB 302 GTTCTTGGAGCAGAACCTTGGCAGAGGTCTGTGTGTACTCTGAAAGACATAGC 361
QY 691 CCATCTTCCAGGAGTGGAGGCGCGTACCACTGAGTATTCCTGATCTGCGGAGA 750
DB 362 CCATCTTCCAGGAGTGGAGGCGCGTACCACTGAGTATTCCTGATCTGCGGAGA 421
QY 751 TGACAGTGGACAGATGACAGTGTGACACCCACCAAGCAGAGCGGAGAACAGTGCAGT 810
DB 422 TGACAGTGGACAGATGACAGTGTGACACCCACCAAGCAGAGCGGAGAACAGTGCAGT 481
QY 811 ACCCACTGTCGACACAGAGGCCAACCCGAGCCCTTGGCCACCAAGAGGGGCGG 870
DB 482 ACCCACTGTCGACACAGAGGCCAACCCGAGCCCTTGGCCACCAAGAGGGGCGG 541
QY 871 AGAAGCTCATGAGCCAGAGGAAACAAATATGATGAGGCTAGTGTGACACACT 930
DB 542 AGAAGCTCATGAGCCAGAGGAAACAAATATGATGAGGCTAGTGTGACACACT 601
QY 931 GGCAGTATACGAGCTCTTGTGATTA 957
DB 602 GGCAGTATACGAGCTCTTGTGATTA 628

RESULT 15

BD249821 2133 bp DNA linear PAT 17-JUL-2003
LOCUS 33 human secreted proteins.
DEFINITION BD249821
ACCESSION BD249821.1 GI:33059591
VERSION JP 2002540763-A/23.
KEYWORDS Homo sapiens (human)
SOURCE
ORGANISM Homo sapiens

REFERENCE

AUTHORS
TITLE
JOURNAL
COMMENT
33 human secreted proteins
Patent: JP 2002540763-A 23 03-DEC-2002;
HUMAN GENOME SCIENCES INC
OS Homo sapiens (human)
PN JP 2002540763-A/23
PD 03-DEC-2002
PF 08-FEB-2000 JP 2000598519
PR 10-FEB-1999 US 60/119468
PI CRAIG A ROSEN, STEVEN M RUBEN, REINHARD EBNER, PAUL E YOUNG, JIAN
NI,
PI DANIEL R SOPPET, PAUL A MOORE, YANGGU SHI, DAVID W LAFLEUR, HENRIK

PI S OLSEN,
PI KIMBERLY A FLORENCE, GEORGE KOMATSULIS
PC C12N15/09, A61K31/7115, A61K38/00, A61K48/00, A61P1/00, A61P1/04,
PC A61P1/16,
PC A61P12/06,
PC A61P13/12, A61P15/00, A61P15/16, A61P17/00, A61P17/02, A61P17/06,
PC A61P17/10,
PC A61P19/02, A61P19/04, A61P19/08, A61P21/00, A61P25/00, A61P25/14,
PC A61P25/16,
PC A61P25/18, A61P25/24, A61P25/28, A61P27/02, A61P31/04, A61P31/18,
PC A61P35/00,
PC A61P35/02, A61P37/00, A61P37/02, A61P37/06, A61P37/08, A61P37/00,
PC A61P43/00,

